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AERODYNAMIC AND ACOUSTIC INVESTIGATION OF INVERTED VELOCITY PROFILE COANNULAR EXHAUST NOZZLE MODELS AND DEVELOPMENT OF AERODYNAMIC AND ACOUSTIC PREDICTION PROCEDURES

COMPREHENSIVE DATA REPORT
VOLUME II

By

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(NASA-CR-159516) AERODYNAMIC AND ACOUSTIC INVESTIGATION OF INVERTED VELOCITY PROFILE COANNULAR EXHAUST NOZZLE MODELS AND DEVELOPMENT OF AERODYNAMIC AND ACOUSTIC PREDICTION (Pratt and Whitney Aircraft

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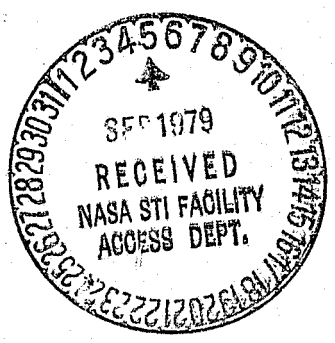


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LIST OF SYMBOLS

CDF	Fan Discharge Coefficient
CDP	Primary Discharge Coefficient
C_T	Thrust Coefficient
PRF	Fan Pressure Ratio
PRP	Primary Pressure Ratio
PR	Pressure Ratio
P_T	Total Pressure
R	Probe Radial Position in Inches
T_T	Total Temperature

1. SUMMARY

This report documents the work performed during the Static Aero/Acoustic Configuration Study. This report is presented in two Volumes to facilitate its use. Volume II contains the tabular acoustic and aero data generated in the program. The acoustic data are corrected to a "theoretical day" and scaled to full engine size.

A complete description of the test hardware and test facilities is contained in the Final Report, NASA CR-3168. Significant rest results, conclusions, and recommendations are also included in the Final Report.

2. INTRODUCTION

The data presented in this volume were acquired during acoustic and aerodynamic tests of scale model nozzles. Details of the test programs are given in the Final Report, NASA CR-3168.

Section 3 contains an index which can be used to locate the tabulated data obtained during this program.

Section 4 provides a description of the tabulated data parameters.

The acoustic data presented in Section 5 include:

- The model data corrected to "Theoretical Day"
- The model data scaled by a factor of 12 to predict full scale engine noise

The model data include 1/3 octave band sound pressure levels, 1/3 octave band sound power levels, overall sound pressure levels and overall sound power levels. The scaled data include 1/3 octave band sound pressure levels, 1/3 octave band power levels, overall sound pressure levels, overall sound power levels and sideline perceived noise levels. The procedure used to scale the model size data to full size is presented in detail in the Final Report, CR-3168. The full scale data were scaled by a factor of 12. The coannular models had an equivalent diameter of 5 inches and the scaled data had an equivalent diameter of 60 inches. The single stream nozzle model had an equivalent diameter of 3.2 inches and the scaled data had an equivalent diameter of 38.4 inches. The model data levels were scaled to full scale by addition of 21.6 dB (20 log 12) to the model data, and the model data frequencies were scaled to full scale by multiplying the model frequencies by a factor of 1/2.

The aerodynamic data presented in Section 5 contain nozzle exhaust plume velocity and temperature measurements and measured nozzle performance.

Graphical correlations used in developing the acoustic jet exhaust noise and performance prediction procedures are contained in Volume I.

3. INDEX TO TABULATED DATA

The acoustic data and the aerodynamic data are presented by configuration letter listed below. The configuration are described in the Final Report.

Configuration	Radius Ratio	
	Fan	Primary
A	0.69	–
B	0.75	–
C	0.83	–
D	0.75	0.60
E	0.83	0.81

3.1 Acoustic Data

The acoustic data are presented in test point number sequence for each configuration. The data for each test point are arranged in the following order:

1st – Model data corrected to "Theoretical Day".

2nd – Model data scaled by factor of 12 and extrapolated to a measurement radius of 150 feet. The full scale data were scaled by a factor of 12. The co-annular models had an equivalent diameter of 5 inches and the scaled data had an equivalent diameter of 60 inches. The single stream nozzle model had an equivalent diameter of 3.2 inches and the scaled data had an equivalent diameter of 38.4 inches. The model data levels were scaled to full scale by addition of 21.6 dB (20 log 12) to the model data, and the model data frequencies were scaled to full scale by multiplying the model frequencies by a factor of 1/12. PNL's also are tabulated at sideline distances of 200 ft, 370 ft, 800 ft, and 2128 ft on a "Standard FAA" day.

To aid in locating tabulated data for any set of nozzle operating conditions, matrices have been prepared and included in this index to identify the test point numbers for the various test conditions. Assume it is necessary to find the test point number for Configuration A tested at a fan pressure ratio of 2.5 and temperature of 800°F; primary pressure ratio of 1.53, 1000°F:

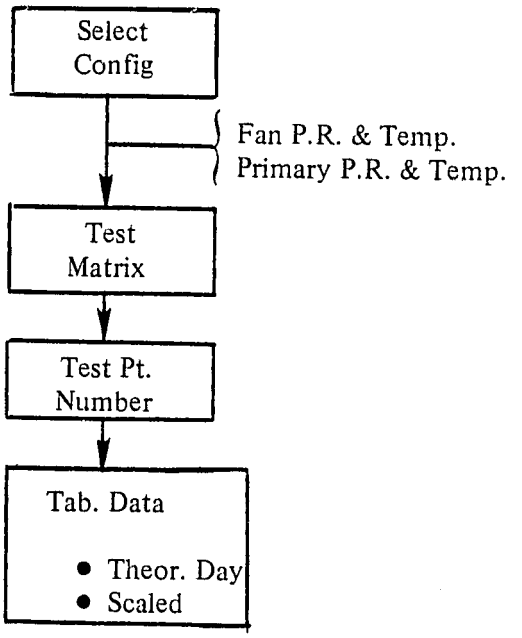
- Locate the Acoustic Test Matrix, page 4.
- The matrix shows the test point number is 8303 for the test conditions specified. The test point number can then be used to locate the tabulated acoustic data listed for the configuration of interest, as illustrated in the diagram on page 5.

ACOUSTIC TEST MATRIX – NASA VSCE COANNULAR NOZZLE PROGRAM

Point No.	FAN T_t°F	FAN Pressure Ratio	FAN Velocity fps	PRIMARY T_t°F	PRIMARY Pressure Ratio	PRIMARY Velocity fps	Configuration A	B	C	D	E
1	800	1.3	1030	1000	1.53	1400	8301	8201	8401	8501	8601
2	800	1.8	1500	1000	1.53	1400	8302	8202*	8402	8502*	8602
3	800	2.5	1850	1000	1.53	1400	8303	8203	8403	8503	8603
4	800	3.2	2050	1000	1.53	1400	8304	8204*	8404	8504*	8604
5	1500	1.8	1880	1000	1.53	1400	8305	8205*	8405	8505*	8605
6	1500	2.5	2320	1000	1.53	1400	8306*	8206*	8406*	8506*	8606*
7	1500	4.1	2800	1000	1.53	1400	8307	8207	8407	8507	8607
8	800	1.3	1030	1000	2.0	1770	8308	8208	8408	8508	8608
9	800	1.8	1500	1000	2.0	1770	8309	8209	8409	8509	8609
10	800	2.5	1850	1000	2.0	1770	8310	8210	8410	8510	8610
11	800	3.2	2050	1000	2.0	1770	8311	8211*	8411	8511*	8611
12	1500	1.8	1880	1000	2.0	1770	8312	8212	8412	8512	8612
13	1500	2.5	2320	1000	2.0	1770	8313	8213	8413	8513	8613
14	1500	4.1	2800	1000	2.0	1770	8314	8214	8414	8514	8614
15[1]	No	Fan	Flow	800	1.3	1030		8215			
16	No	Fan	Flow	800	1.8	1500		8216			
17	No	Fan	Flow	800	2.5	1850		8217			
18	No	Fan	Flow	800	3.2	2050		8218			
19	800	1.3	1030	No	Primary	Flow		8219		8519	
20	800	1.8	1500	No	Primary	Flow		8220		8520	
21	800	2.5	1850	No	Primary	Flow		8221		8521	
22	800	3.2	2050	No	Primary	Flow		8222*		8522*	
23	1500	1.8	1880	No	Primary	Flow		8223		8523	
24	1500	2.5	2320	No	Primary	Flow		8224		8524	
25	1500	4.1	2800	No	Primary	Flow		8225		8525	
26[1]	No	Fan	Flow	800	1.3	1030					8626
27	No	Fan	Flow	800	1.8	1500					8627
28	No	Fan	Flow	800	2.5	1850					8628
29	No	Fan	Flow	800	3.2	2050					8629*
30	No	Fan	Flow	1500	1.8	1880					8630
31	No	Fan	Flow	1500	2.5	2320					8631
32	No	Fan	Flow	1500	4.1	2800					8632

*Traverse Data also were obtained

1 The fan cowl was removed when testing with primary flow alone



3.2 Aerodynamic Data

The aerodynamic data section includes nozzle exhaust plume velocity and temperature data acquired during the acoustic tests, in addition to nozzle thrust and flow coefficient data taken in the nozzle performance test facility.

The plume traverse data are presented in Section 5.2 in the same manner as the acoustic data, by test point number for each configuration. The traverse data were acquired for selected test conditions as indicated by the asterisked test point numbers in the acoustic test matrix.

The nozzle performance data are tabulated in Section 5.3 over a range of fan pressure ratio for each primary pressure ratio as shown in the performance data index.

For example, Configuration A tested at a primary pressure ratio of 1.53 and fan pressure ratio range of 1.3 to 4.1 is identified by run number 1346.

PERFORMANCE DATA INDEX
(SECTION 5.3)

Configuration	Primary Pressure Ratio	Fan Pressure Ratio	Run Number
A	1.53	1.3 - 4.1	1346
A	2.0	1.3 - 4.1	1347
B	1.53	1.3 - 4.1	1337
B	2.0	1.3 - 4.1	1338
B	Primary Off	1.3 - 4.1	1327
C	1.53	1.3 - 4.1	1339
C	2.0	1.3 - 4.1	1340
D	1.53	1.3 - 4.1	1331
D	2.0	1.3 - 4.1	1341
D	Primary Off	1.3 - 4.1	1329
E	1.53	1.3 - 4.1	1342
E	2.0	1.3 - 4.1	1343
E	1.3 - 4.1	Fan Off	1326

4. DATA IDENTIFICATION GUIDE

4.1 Acoustic Data

The acoustic data for each configuration are organized in Section 5.1 according to the index as defined in the preceding section. For each test point number, the model data are presented for a "Theoretical Day" and scaled by a factor of 12 to predict the noise produced by a full scale engine nozzle. The scaling procedure was defined in Section 3.1.

1.) Theoretical ("Lossless") Day Model Data

The data have been corrected only for microphone and cable response and atmosphereic attenuation. The attenuation of sound arising from molecular relaxation transport processes, and "classical attenuation" due to the propagation of sound through the ambient air has been removed from the data. The procedure for this correction is described in the Final Technical Report. The data for test point number 8301 listed on page 5.1A-1 will be used to describe the information presented.

The identifying information for the test point is listed at the top of the page. The significant information for the user is the configuration letter appearing on the first line and the test point number (condition) appearing at the extreme right of the second line.

Directly below the identification section are listed the pertinent ambient and nozzle operating parameters in both U.S. Customary Units as well as the International System of Units (S.I.).

The actual ambient temperature (TEMP), pressure (PRES), wind direction (WIND D), wind velocity (WIND V) and relative humidity (REL H) are listed in the left hand column. The wind direction and velocity are zero for this anechoic chamber experiment.

In the center column is listed the full scale primary and fan stream exhaust nozzle areas (AREA) as equal to zero to indicate that the noise data are in model scale form. In the same columns are found the stream total to ambient pressure ratio (P.R.), stream temperature (TEMP), and stream density (RHO), and the ideally expanded velocity (VEL). These are actual test conditions corresponding to the nominal conditions given in page 4.

Full scale mass flow (MASS FLOW) is listed in the right hand columns. The mass flows were set equal to zero to indicate that the noise data are in scale model form. Also listed in this column are the model size ideal thrusts (THRUST, IDL), exhaust nozzle areas (AREA MOD), and mass flows (W MODEL). The measured thrust (THRUST, MEA) was set equal to zero because thrust was not measured in this study.

Below the parameter listing are the tabulated, model scale one-third octave band sound pressure levels at a 15 ft. polar distance under simulated free-field measurement conditions. The center frequencies of the 30 measured one-third octave bands from 100 Hz to 80K Hz are listed in the left hand column. The one-third octave band sound pressure levels for each microphone measuring angle (60° to 160° at 10 degree increments, for each one-third octave band) are listed in the appropriate columns.

The one-third octave band power levels (reference to 10^{-12} watts) are listed at the extreme right hand side of the page.

Below the one-third octave band sound pressure and sound power levels are listed the 15 ft. radius overall sound pressure level (OSPL) for each angle and the overall sound power level (OAPWL).

Some difficulty was experienced with flow measurement instrumentation for a few operating points. Estimate of the flows for these points were made by multiplying the ideal flow by the discharge coefficient of a similar nozzle. The tabulated flows for these cases are identified by XXX.

2.) Scaled Data

The second set of data, page 5.1A-2, consists of the model data scaled by a factor of 12 and corrected to a "Standard FAA Day". The procedure for scaling the model data is outlined in Section 3.1. The identifying information, pertinent ambient and nozzle operating parameters are identified in the same manner as the model data.

Below the parameter listing are the tabulated, full scale one-third octave band sound pressure levels at a 150 ft. polar distance under free-field measurement conditions for a "Standard FAA Day". The center frequencies of the measured one-third octave bands from 500 Hz to 10,000 Hz are listed in the left hand column. The one-third octave band sound pressure levels for each microphone measuring angle, 60° to 160° for each 10 degree increment, at each one-third octave band are listed in the appropriate columns.

The one-third octave band power levels (referenced to 10^{-12} watts) are listed at the extreme right hand side of the page.

Below the sound pressure level and sound power level spectra are listed the 150 ft. radius overall sound pressure level (OSPL) for each angle and the overall sound power level (OAPWL). Perceived noise levels (PNL's) are listed for each measuring angle at 150 ft. radius, and at 200 ft., 370 ft., 800 ft., and 2128 ft. sideline distances at the bottom of the data sheet.

4.2 Aerodynamic Data

1.) Nozzle Exhaust Plume Data

Each set of plume traverse data shown in Section 5.2 is identified by configuration and acoustic test point number (CONDITION) at the top of the page, for example; configuration A, point number 8306 shown on page 5.2A-1. For each of the five probe traverse axial locations (4.5 in., 11.6 in., 22.3 in., 34.7 in., 55.0 in. from the fan nozzle lip), the local flow temperature (TT) °R and velocity (V) fps are tabulated as a function of probe radial location (R) inches.

2.) Nozzle Thrust and Discharge Coefficient Data

Each set of nozzle performance data is identified by configuration and run number (RUN) at the top of the data set, for example; Configuration A, run number 1346 shown on page 5.3-1. The data are tabulated by ascending point (PT) for the following parameters; primary pressure ratio (PRP), fan pressure ratio (PRF), thrust coefficient (CT), primary discharge coefficient (CDP), and fan discharge coefficient (CDF).

STAND X206 KIG ID 070530 TEST DATE 03/02/77 SCALE RATIO 0.0/1 RUN NUMBER 20083 CONDITION 8301

			PRIMARY	FAN			PRIMARY	FAN			PRIMARY	FAN		PRIMARY	FAN
TEMP	72°F 22.2°C	AREA	SQFT	0.0	0.0	SQM	0.0	0.0	MASS FLOW	LB/S	0.0	0.0	KG/S	0.0	0.0
PRES	30.07IN 1.02BAR	P.R.		1.51	1.30		1.51	1.30	THRUST,IDL	LB	93.5	86.4	KN	0.416	0.384
WIND D		TEMP	(K)	1449.7	1257.7	(K)	805.4	698.7	THRUST,MEA	LB		0.0	KN	0.0	
WIND V	0MPH 0.0M/S	RHO	LB/FT3	0.021	0.034	KG/M3	0.491	0.546	AREA (MOD)	SQFT	0.060	0.080	SQM	0.006	0.007
REL H	2170	VEL	FPS	1393.9	1050.3	M/S	424.9	320.1	W (MODEL)	LB/S	2.2	2.6	KG/S	1.0	1.2

1/3 OCTAVE BAND MODEL JET NOISE DATA 15.0FT RADIUS

THEORETICAL DAY SPL - (MODEL)

BAND CENTER FREQ (KHZ)	MICROPHONE ANGLES IN DEGREES 60	70	80	90	100	110	120	130	140	150	160	POWER 1E-12W
.050	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
.062	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
.080	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
.100	77.1	80.7	83.4	84.6	83.9	84.8	87.7	90.4	91.4	95.4	98.8	111.6
.125	79.2	83.6	83.7	84.4	85.8	85.8	85.3	89.8	93.5	96.5	98.8	112.3
.160	82.4	86.7	84.3	84.3	83.1	84.0	85.6	88.3	93.5	96.3	101.0	113.2
.200	80.9	82.1	83.5	85.4	86.4	87.2	86.3	91.7	97.7	102.5	104.0	115.7
.250	82.9	84.4	85.4	87.3	87.8	88.7	91.2	95.1	100.1	104.5	105.7	116.7
.315	85.3	86.1	87.3	88.6	89.5	90.9	93.6	97.8	102.1	106.8	109.6	121.4
.400	88.4	89.6	90.3	91.7	92.6	94.0	96.9	101.2	105.7	109.8	112.4	124.5
.500	89.9	90.5	90.7	92.1	92.7	94.4	97.5	102.4	107.9	112.2	110.9	125.3
.630	92.6	91.9	92.6	94.0	94.6	96.2	99.4	103.9	109.4	113.2	112.5	127.1
.800	92.4	93.3	93.2	94.8	95.3	96.6	99.2	102.5	110.1	113.8	112.0	127.5
1.00	92.6	93.3	92.9	94.9	96.4	98.4	101.0	100.4	110.5	113.3	112.4	127.4
1.25	91.4	92.3	93.4	94.7	96.1	97.9	100.8	102.7	109.2	111.3	109.5	126.0
1.60	90.3	91.6	92.6	94.3	95.6	97.7	100.5	103.8	107.8	109.3	107.2	124.8
2.00	89.4	90.8	92.0	93.7	95.5	97.4	100.5	103.5	105.8	106.2	103.8	123.0
2.50	88.5	90.2	91.5	93.5	95.2	97.5	100.4	103.1	103.9	103.2	101.0	121.7
3.15	88.0	89.5	91.1	92.9	94.7	96.9	99.9	101.6	101.5	99.9	96.2	120.0
4.00	87.5	89.0	90.4	92.5	94.1	96.4	99.1	100.5	99.2	96.0	91.5	118.7
5.00	87.1	88.0	89.4	91.5	93.2	95.1	97.8	98.7	96.4	92.7	87.3	117.0
6.30	86.4	87.3	88.9	91.0	92.4	94.3	96.7	97.2	94.3	90.0	84.1	115.3
8.00	84.6	86.6	88.0	90.1	91.4	93.4	95.3	94.6	92.0	87.9	81.7	114.3
10.0	83.7	85.6	87.0	89.2	90.4	92.2	93.8	92.7	90.3	86.1	80.6	112.9
12.5	83.4	84.8	86.3	88.4	89.6	91.2	92.4	91.2	88.6	84.7	79.1	111.7
16.0	82.8	84.4	86.0	88.0	89.0	90.4	91.2	89.8	87.5	83.5	78.4	110.8
20.0	81.5	83.5	85.6	87.6	87.9	88.9	89.7	88.2	85.9	82.4	77.2	109.5
25.0	81.0	82.6	84.4	86.4	87.1	88.7	88.4	87.3	84.8	81.8	77.0	108.8
31.5	80.2	82.3	84.0	85.8	86.7	87.4	88.0	86.2	84.1	81.3	76.0	108.0
40.0	80.1	82.2	84.1	85.7	86.1	87.3	86.9	85.4	83.9	81.7	76.4	107.6
50.0	79.5	81.6	83.0	85.0	85.4	86.8	87.1	86.6	83.4	82.1	77.9	107.4
63.0	78.1	80.5	82.1	84.1	85.0	85.6	86.0	84.6	83.0	82.2	78.4	106.5
80.0	77.8	79.6	82.0	83.6	84.5	85.1	85.6	84.7	84.4	83.9	79.1	106.3
100.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
OSPL	102.0	103.1	103.9	105.6	106.8	108.6	111.2	113.6	118.3	121.3	120.7	OAPWL = 136.0

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STAND X206 RIG ID 070530 TEST DATE 03/02/77 SCALE RATIO 12.0/1 RUN NUMBER 2008 CONDITION 8301

				PRIMARY	FAN		PRIMARY	FAN			PRIMARY	FAN		PRIMARY	FAN
TEMP	77.0(F)	25.0(C)	AREA	SQFT 8.640	11.520	SQM	0.803	1.070	MASS FLOW	LB/S	311.0	381.6	KG/S	141.1	173.1
PRES	30.07IN	1.028AR	P.R.	1.51	1.30		1.51	1.30	THRUST,IDL	LB	13464.3	12446.8	KN	59.892	55.366
WIND D			TEMP	(R) 1449.7	1257.7	(K)	805.4	698.7	THRUST,MEA	LB		0.0	KN	0.0	
WIND V	0MPH	0.0M/S	RHO	LB/FT3 0.031	0.034	KG/M3	0.491	0.546	AREA (MOD)	SQFT	0.060	0.080	SQM	0.006	0.007
REL H	70.0%		VEL	FPS 1393.9	1050.3	M/S	424.9	320.1	W (MODEL)	LB/S	2.2	2.6	KG/S	1.0	1.2

1/30

FAA DAY

1/3 OCTAVE BAND ENGINE JET NOISE DATA 150.0FT RADIUS (SCALED ENGINE)

BAND CENTER FREQ (KHZ)	MICROPHONE ANGLES IN DEGREES 60	70	80	90	100	110	120	130	140	150	160	POWER 1E-12W
.050	94.2	93.5	94.2	95.6	96.2	97.8	101.0	105.5	111.0	114.8	114.1	
.063	94.0	94.9	94.8	96.4	96.9	98.2	100.8	104.1	111.7	115.4	113.6	150.3
.080	94.2	94.9	94.5	96.5	96.0	100.0	102.6	102.0	112.1	114.9	114.0	150.6
.100	93.0	93.9	95.0	96.3	97.7	99.5	102.4	104.3	110.8	112.9	111.1	150.6
.125	91.9	93.2	94.2	95.9	97.2	99.3	102.1	105.4	109.4	110.9	108.8	149.1
.160	90.9	92.3	93.5	95.2	97.0	98.9	102.0	105.0	107.3	107.7	105.3	147.9
.200	90.0	91.7	93.0	95.0	96.7	99.0	101.9	104.6	105.4	104.7	102.5	146.1
.250	89.5	91.0	92.6	94.4	96.2	98.4	101.4	103.1	103.0	101.4	97.7	144.8
.315	89.0	90.5	91.9	94.0	95.6	97.9	100.6	102.6	100.7	97.5	93.0	143.1
.400	88.6	89.5	90.9	93.0	94.7	96.6	99.3	100.2	97.9	94.2	88.8	141.8
.500	87.8	88.7	90.5	92.4	93.8	95.7	98.1	98.6	95.7	91.4	85.5	140.1
.630	86.0	88.0	89.4	91.5	92.8	94.8	96.7	96.0	93.4	89.3	83.1	138.8
.800	85.1	87.0	88.4	90.6	91.8	93.6	95.2	94.1	91.7	87.5	82.0	137.3
1.00	84.7	86.1	87.6	89.7	90.9	92.5	93.7	92.5	89.9	86.0	80.4	135.8
1.25	84.0	85.6	87.2	89.2	90.2	91.6	92.4	91.0	88.7	84.7	79.6	134.8
1.60	82.6	84.6	86.1	88.1	89.0	90.0	90.8	89.3	87.0	83.5	78.3	133.7
2.00	82.1	83.7	85.5	87.5	88.2	89.8	89.5	88.4	85.9	82.9	78.1	132.2
2.50	81.1	83.2	84.9	86.7	87.6	88.3	88.9	87.1	85.0	82.2	76.9	131.4
3.15	80.8	82.9	84.8	86.4	86.8	88.0	87.6	86.1	84.6	82.4	77.1	130.5
4.00	80.0	82.1	83.5	85.5	85.9	87.3	87.6	87.1	83.9	82.6	78.4	129.9
5.00	78.4	80.8	82.4	84.4	85.3	86.1	86.3	84.9	83.3	82.5	78.7	129.5
6.30	77.8	79.8	82.0	83.6	84.5	85.1	85.6	84.7	84.4	83.9	79.1	128.4
8.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	127.8
10.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
												0.0

OASPL = 158.0

OSPL	102.7	103.7	104.6	106.4	107.7	109.6	112.2	114.3	118.9	121.4	120.0
PNL	108.8	110.4	112.0	113.8	114.7	116.2	117.7	118.5	119.6	119.9	117.5

200. SIDELINE

PNL	104.7	107.2	109.1	111.1	111.9	112.9	113.8	113.5	113.1	111.1	105.3

370. SIDELINE

PNL	98.6	101.2	103.1	105.1	105.9	107.0	108.0	107.8	107.4	105.4	99.5

800. SIDELINE

PNL	90.4	92.8	94.8	96.9	97.8	99.1	100.4	100.2	99.9	97.9	91.9

2128. SIDELINE

PNL	78.9	81.2	83.2	85.4	86.7	88.0	89.5	89.5	89.5	87.5	80.7

STAND X206 RIG ID 070530 TEST DATE 03/02/77 SCALE RATIO 12.0/1 RUN NUMBER 20083 CONDITION 83C2

			PRIMARY	FAN		PRIMARY	FAN			PRIMARY	FAN		PRIMARY	FAN
TEMP 73.0°F (22.8°C)	AREA	SQFT	0.0	0.0	SQM	0.0	0.0	MASS FLOW	LB/S	0.0	0.0	KG/S	0.0	0.0
PRES 30.06IN 1.02BAR	P.R.		1.53	1.79		1.53	1.79	THRUST,IDL	LB	91.7	205.5	KN	0.408	0.914
WIND D	TEMP	(R)	1453.7	1264.7	(K)	807.6	702.6	THRUST,MEA	LB		0.0	KN	0.0	
WIND V CMPH 0.0M/S	RHO	LB/FT3	0.031	0.037	KG/M3	0.491	0.589	AREA (MOD)	SQFT	0.060	0.060	SQM	0.006	0.007
REL H 22%	VEL	FPS	1420.4	1528.5	M/S	432.9	465.9	W (MODEL)	LB/S	2.1	4.3	KG/S	0.9	2.0

1/3 OCTAVE BAND MODEL JET NOISE DATA 15.0FT RADIUS THEORETICAL DAY SPL - (MODEL)

BAND CENTER FREQ (KHZ)	MICROPHONE ANGLES IN DEGREES 60	70	80	90	100	110	120	130	140	150	160	POWER 1E-12W
.050	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
.063	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
.080	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
.100	82.1	84.8	87.5	88.4	88.1	89.2	91.0	93.7	95.1	98.8	102.8	115.3
.125	83.9	87.3	87.5	88.8	90.3	90.8	89.5	94.0	97.6	100.2	103.2	116.4
.160	87.6	89.8	88.6	88.5	87.6	89.0	90.1	92.7	97.9	102.1	105.3	117.4
.200	86.3	86.3	87.6	89.5	90.8	91.6	93.5	96.3	102.0	106.2	108.3	120.7
.250	87.5	88.2	89.6	91.6	92.3	93.5	95.6	99.3	104.4	108.7	110.5	123.1
.315	89.2	89.7	91.4	93.2	94.3	95.8	97.8	102.8	108.8	111.1	113.9	125.8
.400	92.9	93.2	93.9	95.4	96.6	98.6	100.9	105.9	110.6	114.0	116.6	128.8
.500	94.1	94.6	94.9	96.2	96.8	99.3	101.9	107.0	113.0	116.7	115.3	130.4
.630	97.0	95.8	96.4	98.0	99.6	100.9	103.7	109.3	114.2	117.3	116.3	131.5
.800	96.6	96.6	97.4	98.7	99.6	101.4	104.1	109.8	114.7	117.7	116.2	131.9
1.00	96.9	97.1	97.2	99.0	100.7	103.0	105.3	109.9	114.4	117.0	116.7	131.7
1.25	96.8	96.8	98.5	99.4	100.9	102.7	105.6	109.4	113.1	115.3	115.1	130.5
1.60	96.5	96.6	97.8	99.3	100.6	102.7	105.5	109.1	111.5	113.3	113.4	129.3
2.00	95.5	95.9	97.7	98.9	100.8	103.0	105.9	108.7	110.1	110.7	110.6	127.9
2.50	95.2	96.1	97.4	99.4	101.0	103.5	106.1	108.5	108.9	109.0	110.1	127.4
3.15	94.9	95.5	97.1	99.1	100.9	103.5	106.1	107.9	107.6	107.9	108.2	126.7
4.00	94.6	95.5	96.8	98.9	100.7	103.5	105.9	107.2	106.6	106.4	106.9	126.1
5.00	94.5	94.8	96.3	98.2	100.3	102.8	105.1	106.1	105.1	105.2	105.3	125.1
6.30	94.1	94.4	96.0	98.3	100.1	102.8	104.6	105.4	104.2	104.3	103.9	124.3
8.00	92.7	94.0	95.8	97.9	99.7	102.0	103.8	104.2	102.8	102.8	101.6	123.6
10.0	92.3	93.4	95.2	97.5	99.3	101.8	103.3	103.3	101.9	101.4	99.8	122.9
12.5	92.1	92.8	94.7	97.1	98.7	101.1	102.4	102.1	100.4	100.0	97.7	121.9
16.0	91.6	92.8	94.7	97.0	98.6	100.8	101.8	101.2	99.6	98.7	96.3	121.4
20.0	90.7	92.1	94.1	96.5	98.0	99.9	100.8	100.0	98.3	97.2	94.1	120.4
25.0	90.0	91.4	93.5	96.3	97.5	99.8	100.0	98.9	97.3	96.0	93.3	119.8
31.5	89.3	91.1	93.6	96.0	97.5	99.1	99.7	98.5	96.7	95.0	91.5	119.3
40.0	89.2	91.2	93.6	96.0	97.1	99.2	98.6	96.4	96.1	94.6	91.5	119.0
50.0	88.7	90.6	92.8	95.5	96.4	98.7	98.8	97.7	95.3	93.9	91.1	118.6
63.0	87.6	89.4	92.1	94.5	95.9	97.8	97.8	96.9	94.4	92.3	90.8	117.6
80.0	88.0	89.3	92.2	94.4	96.0	97.3	97.7	96.5	95.1	93.6	91.5	117.7
100.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

OAPWL = 141.2

OSPL 107.9 108.4 109.8 111.7 113.2 115.4 117.4 120.2 123.1 125.6 125.6

STAND X206 RIG ID 070530 TEST DATE 03/02/77 SCALE RATIO 12.0/1 RUN NUMBER 2008 CONDITION 8302

				PRIMARY	FAN		PRIMARY	FAN			PRIMARY	FAN		PRIMARY	FAN
TEMP	77.0(F)	25.0(C)	AREA	SQFT	8.630	11.520	SQM	0.803	1.070	MASS FLOW	LB/S	299.5	623.5	KG/S	135.9	282.8
PRES	30.06IN	1.02BAR	P.R.		1.53	1.79		1.55	1.52	THRUST,IDL	LB	13211.9	29598.6	KN	58.769	131.661
WIND D			TEMP	(R)	1455.7	1264.7	(K)	807.6	702.6	THRUST,MEA	LB		0.0	KN	0.0	
WIND V	0MPH	0.0M/S	RHO	LB/FT3	0.031	0.037	KG/M3	0.491	0.589	AREA (MOD)	SQFT	0.060	0.080	SQM	0.006	0.007
REL H	70.6%		VEL	FPS	1420.4	1525.5	M/S	432.9	465.9	W (MODEL)	LB/S	2.1	4.3	KG/S	0.9	2.0

FAA DAY 1/3 OCTAVE BAND ENGINE JET NOISE DATA 150.0FT RADIUS (SCALED ENGINE)

BAND CENTER FREQ (KHZ)	MICROPHONE ANGLES IN DEGREES 60	70	80	90	100	110	120	130	140	150	160	POWER 1E-12W
.050	98.6	97.4	98.0	99.6	100.6	102.5	103.3	110.9	115.8	118.9	117.9	154.7
.063	98.2	98.2	99.0	100.3	101.2	103.0	105.7	111.4	116.3	119.3	117.8	155.0
.080	98.5	98.7	98.8	100.6	102.3	104.6	106.9	111.5	116.0	118.6	118.3	154.9
.100	98.4	98.4	100.1	101.0	102.5	104.3	107.2	111.0	114.7	116.9	116.7	153.7
.125	98.1	98.2	99.4	100.9	102.2	104.3	107.1	110.7	113.1	114.9	115.0	152.4
.160	97.6	97.4	99.2	100.4	102.3	104.5	107.4	110.2	111.6	112.2	112.1	151.1
.200	96.7	97.6	98.9	100.9	102.5	105.0	107.6	110.0	110.4	110.5	111.6	150.5
.250	96.4	97.0	98.6	100.6	102.4	105.0	107.6	109.4	109.1	109.4	109.7	149.8
.315	96.1	97.0	98.3	100.4	102.2	105.0	107.4	108.7	108.1	107.9	108.4	149.2
.400	96.0	96.3	97.6	99.8	101.8	104.3	106.6	107.6	106.6	106.7	106.8	148.2
.500	95.5	95.6	97.4	99.7	101.5	104.2	106.6	106.8	105.6	105.7	105.3	147.5
.630	94.1	95.4	97.2	99.3	101.1	103.4	105.2	105.6	104.2	104.2	103.0	146.6
.800	93.7	94.8	96.6	98.9	100.7	103.2	104.7	104.7	103.3	102.8	101.2	145.8
1.00	93.4	94.1	96.0	98.4	100.6	102.4	103.7	103.4	101.7	101.3	99.0	144.8
1.25	92.6	94.0	95.9	98.2	99.8	102.0	103.0	102.4	100.8	99.9	97.5	144.2
1.60	91.8	93.2	95.2	97.6	99.1	101.0	101.9	101.1	99.4	98.3	95.2	143.1
2.00	91.1	92.5	94.6	97.4	98.6	100.9	101.1	100.0	98.4	97.1	94.4	142.4
2.50	90.2	92.0	94.5	96.9	98.4	100.0	100.6	99.4	97.6	95.9	92.4	141.8
3.15	89.9	91.9	94.3	96.7	97.8	99.9	99.3	99.1	96.8	95.3	92.2	141.3
4.00	89.2	91.1	93.3	96.0	96.9	99.2	99.3	98.2	95.8	94.4	91.6	140.6
5.00	88.1	89.7	92.4	94.8	96.2	98.1	98.1	97.2	94.7	93.6	91.1	139.6
6.30	88.0	89.3	92.2	94.4	96.0	97.3	97.7	96.5	95.1	93.6	91.5	139.2
8.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

OAPWL = 163.2

OSPL	108.8	109.2	110.7	112.6	114.1	116.4	118.5	121.1	123.6	125.7	125.2
PNL	116.9	118.2	120.2	122.4	123.8	126.0	126.8	127.3	126.7	127.4	126.5

200. SIDELINE

PNL	112.9	114.9	117.4	119.8	121.0	122.7	122.8	122.1	120.1	118.5	114.1

370. SIDELINE

PNL	106.8	108.9	111.4	113.8	115.0	116.7	116.8	116.0	114.3	112.6	108.1

660. SIDELINE

PNL	98.3	100.4	103.0	105.4	106.8	108.3	108.6	108.2	106.5	104.8	100.1

2128. SIDELINE

PNL	86.6	88.3	90.6	92.9	94.4	96.2	97.1	97.1	95.7	94.0	89.0

STAND X206 RIG ID 070530 TEST DATE 03/02/77 SCALE RATIO 12.0/1 RUN NUMBER 20083 CONDITION 8303

			PRIMARY	FAN		PRIMARY	FAN			PRIMARY	FAN		PRIMARY	FAN
TEMP 74°F 23.3°C	AREA	SQFT	0.0	0.0	SQM	0.0	0.0	MASS FLOW	LB/S	0.0	0.0	KG/S	0.0	0.0
PRES 30.16IN 1.02BAR	P.R.		1.53	2.48		1.53	2.48	THRUST,IDL	LB	83.6	362.2	KN	0.372	1.611
WIND D	TEMP	(R)	1460.7	1266.7	(K)	811.5	703.7	THRUST,MEA	LB		0.0	KN	0.0	
WIND V 0MPH 0.0N/S	RHO	LB/FT3	0.030	0.040	KG/M3	0.488	0.641	AREA (MOD)	SQFT	0.060	0.080	SQM	0.006	0.007
REL H 22 %	VEL	FPS	1416.2	1875.2	M/S	431.7	571.6	W (MODEL)	LB/S	1.9	6.2	KG/S	0.9	2.8

1/3 OCTAVE BAND MODEL JET NOISE DATA 15.0FT RADIUS THEORETICAL DAY SPL - (MODEL)

BAND CENTER FREQ (KHZ)	MICROPHONE ANGLES IN DEGREES 60	70	80	90	100	110	120	130	140	150	160	POWER 1E-12W
.050	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
.063	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
.080	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
.100	86.6	89.2	91.5	91.9	91.5	92.4	93.7	96.9	98.0	102.5	106.4	118.7
.125	88.2	91.3	91.5	92.9	94.0	94.2	92.7	97.3	100.8	103.8	107.0	119.9
.160	92.7	94.3	92.8	93.1	91.8	92.6	93.4	96.2	101.2	105.8	109.3	121.2
.200	91.2	90.6	92.4	93.9	94.2	95.6	97.2	100.0	105.3	110.0	112.5	124.6
.250	92.1	92.2	93.6	95.3	95.9	97.6	98.9	102.8	108.1	112.7	114.8	127.1
.315	92.8	93.4	95.2	96.9	97.9	99.3	101.3	106.4	110.0	115.0	118.3	129.7
.400	97.2	96.9	97.7	99.1	100.3	102.1	104.1	109.3	114.1	118.1	120.9	132.8
.500	98.3	98.5	98.9	99.8	100.2	102.7	105.1	110.5	116.5	120.7	119.6	134.3
.630	100.7	99.9	100.4	101.6	102.1	104.1	106.8	112.9	117.8	121.0	120.4	135.2
.800	101.2	100.5	101.4	102.6	103.3	104.7	107.2	113.4	118.1	121.7	120.5	135.7
1.00	101.7	101.8	101.4	102.7	104.3	106.7	108.8	113.9	117.7	121.0	121.4	135.6
1.25	102.2	101.2	102.7	103.3	104.4	106.4	109.1	113.8	116.4	119.8	119.9	134.7
1.60	102.6	102.5	102.9	103.9	104.6	106.8	109.4	113.8	115.4	119.3	120.0	134.4
2.00	102.8	102.1	103.1	104.1	105.1	107.3	110.2	113.5	114.9	118.7	119.2	133.9
2.50	102.0	102.3	103.0	104.3	105.6	107.9	110.9	113.7	114.8	119.0	120.0	134.3
3.15	101.6	101.6	102.9	104.1	105.4	108.1	111.1	113.4	114.9	119.4	118.7	134.2
4.00	101.1	101.1	102.4	103.8	105.5	108.4	111.3	113.2	115.5	119.3	117.1	134.2
5.00	102.0	100.6	102.1	103.5	105.2	108.3	110.8	112.6	115.8	118.5	115.3	133.7
6.30	102.0	102.7	102.5	103.7	105.4	108.2	110.6	112.4	116.0	116.3	113.3	133.0
8.00	102.4	103.4	103.1	104.2	105.2	107.8	110.1	111.9	114.9	114.6	111.0	132.4
10.0	104.4	105.7	107.1	105.9	105.5	108.0	109.8	111.2	114.0	113.5	109.7	131.9
12.5	102.9	103.0	105.4	106.9	106.1	107.9	109.5	110.4	112.5	112.4	108.1	131.1
16.0	103.0	102.9	104.6	106.0	107.0	106.2	109.0	110.0	111.7	111.4	107.1	130.6
20.0	101.2	102.2	104.2	105.0	106.2	107.8	108.4	109.1	110.9	110.2	105.8	129.8
25.0	100.4	101.0	103.5	105.4	105.9	106.2	108.1	108.5	110.0	109.6	105.6	129.5
31.5	99.4	100.5	103.2	104.9	105.9	107.7	108.1	108.1	110.0	109.2	104.7	129.2
40.0	98.8	100.3	103.2	105.0	105.6	107.9	107.4	108.5	109.8	109.7	105.3	129.1
50.0	97.9	99.3	102.3	104.4	105.3	107.7	108.0	108.0	109.8	109.5	105.3	129.0
63.0	96.8	98.3	101.3	103.5	105.0	107.1	107.4	107.8	109.4	109.6	105.0	128.6
80.0	97.0	98.0	101.5	103.4	105.2	107.2	107.9	108.4	111.1	110.7	105.8	129.3
100.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
OSPL	116.0	115.7	117.0	118.0	118.9	121.1	122.9	125.6	128.6	131.5	131.2	

OAPWL = 146.9

STAND X206 RIG ID 070530 TEST DATE 03/02/77 SCALE RATIO 12.0/1 RUN NUMBER 2006 CONDITION 6303

				PRIMARY	FAN		PRIMARY	FAN			PRIMARY	FAN		PRIMARY	FAN
TEMP	77.0(F)	25.0(C)	AREA SQFT	8.640	11.520	SQM	0.803	1.070	MASS FLOW	LB/S	857.8	937.4	KG/S	124.1	406.3
PRES	30.06IN	1.02BAR	P.R.	1.53	2.48		1.53	2.48	THRUST,IDL	LB	12033.5	52161.9	KN	53.527	232.027
WIND D			TEMP (R)	1460.7	1266.7	(K)	811.5	703.7	THRUST,MEA	LB		0.0	KN	0.0	
WIND V	0MPH	0.0M/S	RHO LB/FT3	0.030	0.040	KG/M3	0.488	0.641	AREA (MOD)	SQFT	0.060	0.080	SQM	0.006	0.007
RFL	H 70.0%		VEL FPS	1416.2	1875.2	M/S	431.7	571.6	W (MODEL)	LB/S	1.9	6.2	KG/S	0.9	2.8

FAN DAY

1/3 OCTAVE BAND ENGINE JET NOISE DATA 150.0FT RADIUS (SCALED ENGINE)

BAND CENTER FREQ (KHZ)	MICROPHONE ANGLES IN DEGREES 60	70	80	90	100	110	120	130	140	150	160	POWER 1E-12W
.050	102.3	101.5	102.0	103.2	103.7	105.7	108.4	114.5	119.4	122.6	122.0	
.063	102.8	102.1	103.0	104.2	104.9	106.3	109.8	115.0	119.7	123.3	122.1	158.3
.080	103.3	103.4	103.0	104.3	105.9	108.3	110.4	115.5	119.3	122.6	123.0	153.8
.100	103.8	102.8	104.3	104.9	106.0	108.0	110.7	115.4	118.0	121.4	121.5	156.8
.125	104.2	104.1	104.5	105.5	106.2	108.4	111.0	115.4	117.0	120.9	121.6	157.6
.160	104.3	103.6	104.6	105.6	106.6	108.8	111.7	115.0	116.4	120.2	120.7	157.5
.200	103.5	103.6	104.5	105.8	107.1	109.3	112.4	115.2	116.3	120.5	121.5	157.1
.250	103.1	103.1	104.4	105.6	106.9	109.6	112.6	114.9	116.4	120.9	120.2	157.4
.315	102.6	102.6	103.9	105.3	107.0	109.9	112.8	114.7	117.0	120.8	118.6	157.3
.400	103.9	102.1	103.6	105.6	106.7	109.8	112.3	114.1	117.3	120.6	116.8	157.3
.500	104.4	104.1	103.9	105.1	106.8	109.6	112.0	113.8	117.4	117.7	114.7	156.8
.630	104.8	104.8	104.5	105.6	106.6	109.2	111.5	113.3	116.3	116.0	112.4	156.1
.800	104.8	104.1	104.3	105.3	106.9	109.4	111.2	112.6	115.4	114.9	111.1	155.4
1.00	104.2	104.3	104.7	105.2	107.4	109.2	110.6	111.7	113.8	113.7	109.4	154.9
1.25	104.2	104.1	105.8	107.2	108.2	109.4	110.2	111.2	112.9	112.6	108.3	154.6
1.60	102.3	103.3	105.3	106.1	107.3	108.9	109.5	110.2	112.0	111.3	106.9	153.5
2.00	101.5	102.1	104.6	106.5	107.6	109.3	109.2	109.6	111.1	110.7	106.7	152.5
2.50	100.3	101.4	104.1	105.8	106.8	108.6	109.0	109.0	110.9	110.1	105.6	152.1
3.15	99.5	101.0	103.9	105.7	106.3	108.6	108.1	109.2	110.5	110.4	106.0	151.6
4.00	98.4	99.8	102.8	104.9	105.8	108.2	108.5	108.5	110.3	110.0	105.8	151.4
5.00	97.1	98.6	101.6	103.8	105.3	107.4	107.7	108.1	109.7	109.9	105.3	151.0
6.30	97.6	98.0	101.5	103.4	105.2	107.2	107.9	108.4	111.1	110.7	105.8	150.4
8.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	150.6
10.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
												0.0

OSPL 117.2 116.8 118.0 119.0 119.9 122.2 124.0 126.7 129.4 132.2 131.4

PNL 126.2 126.7 128.9 130.3 131.2 133.4 134.3 135.6 137.6 138.5 136.0

OAPWL = 169.3

200. SIDELINE

PNL 122.1 123.5 126.0 127.6 128.3 130.1 130.2 130.4 130.7 129.2 123.4

370. SIDELINE

PNL 116.1 117.4 120.0 121.6 122.3 124.0 124.0 124.2 124.4 123.1 117.2

600. SIDELINE

PNL 108.2 109.1 111.5 113.1 113.9 115.5 115.6 115.5 115.9 114.9 108.9

2128. SIDELINE

PNL 96.6 97.5 98.9 100.4 101.0 102.6 103.1 103.7 104.1 103.1 97.3

STAND X206 RIG ID 070530 TEST DATE 03/02/77 SCALE RATIO 12.0/1 RUN NUMBER 20083 CONDITION 8304

			PRIMARY	FAN		PRIMARY	FAN			PRIMARY	FAN		PRIMARY	FAN
TEMP 74°F 23.3°C	AREA	SQFT	0.0	0.0	SQM	0.0	0.0	MASS FLOW	LB/S	0.0	0.0	KG/S	0.0	0.0
PRES 30.06IN 1.02BAR	P.R.		1.46	3.18		1.46	1.51	THRUST,IDL	LB	77.8	516.7	KN	0.346	2.298
WIND D	TEMP	(R)	1465.7	1256.7	(K)	814.3	698.2	THRUST,MEA	LB		0.0	KN	0.0	
WIND V 0MPH 0.0M/S	RHO	LB/FT3	0.030	0.043	KG/M3	0.481	0.690	AREA (MOD)	SQFT	0.060	0.080	SQM	0.006	0.007
REL H 22%	VEL	FPS	1346.2	2074.4	M/S	410.3	632.3	W (MODEL)	LB/S	1.9	8.0	KG/S	0.8	3.6

1/3 OCTAVE BAND MODEL JET NOISE DATA 15.0FT RADIUS THEORETICAL DAY SPL - (MODEL)

BAND CENTER FREQ (KHZ)	MICROPHONE ANGLES IN DEGREES 60	70	80	90	100	110	120	130	140	150	160	POWER 1E-12W
.050	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
.063	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
.080	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
.100	90.3	93.6	95.4	94.8	94.8	95.6	96.6	99.2	100.8	105.3	110.1	121.9
.125	91.5	94.9	94.7	96.1	97.1	96.9	95.8	99.7	103.4	106.8	110.5	123.0
.160	96.6	97.9	96.0	96.3	95.1	95.4	96.5	98.8	104.0	108.8	112.7	124.3
.200	95.0	94.5	95.4	96.8	97.3	98.3	100.1	102.6	108.1	113.0	115.9	127.6
.250	95.5	95.6	96.6	98.1	98.9	100.3	101.9	104.9	110.4	115.4	118.1	129.8
.315	95.4	96.4	97.8	99.4	100.9	102.1	103.9	108.6	112.8	118.0	121.6	132.7
.400	100.1	100.2	100.2	101.2	102.9	104.6	106.8	111.5	116.7	121.0	124.1	135.6
.500	100.7	101.7	101.0	101.9	102.7	105.1	107.5	112.5	119.1	123.5	122.8	137.0
.630	103.4	102.8	102.7	104.1	104.5	106.2	109.1	115.1	120.5	123.8	123.6	137.9
.800	103.9	103.3	103.9	105.2	105.9	106.8	109.4	115.5	120.5	124.4	123.5	138.3
1.00	104.7	104.8	104.1	105.1	106.6	108.9	111.0	116.0	120.2	124.0	124.3	138.3
1.25	105.3	104.6	105.3	105.8	107.1	108.8	111.7	116.2	119.2	123.1	122.9	137.6
1.60	105.1	105.4	105.5	106.4	107.2	109.2	112.1	116.3	118.6	122.8	123.0	137.5
2.00	105.0	104.8	105.3	106.3	107.7	109.8	113.1	116.4	118.5	122.9	121.9	137.4
2.50	103.9	104.5	105.1	106.6	108.0	110.5	113.9	116.9	119.4	123.4	122.2	137.5
3.15	105.3	104.8	105.4	106.6	108.1	111.0	114.5	117.0	121.0	123.8	120.0	136.4
4.00	111.7	107.7	105.9	106.6	108.3	111.4	114.7	117.1	121.6	121.4	117.2	137.9
5.00	113.9	112.7	109.6	107.4	108.4	111.2	114.6	117.0	121.4	119.2	115.1	137.6
6.30	111.3	112.6	113.3	111.0	109.4	111.6	114.6	117.5	120.4	118.1	113.7	137.4
8.00	109.1	110.0	111.9	112.9	110.9	111.7	114.1	117.2	118.6	116.5	111.6	136.6
10.0	110.1	110.1	110.3	111.7	112.3	112.3	114.0	116.8	117.9	115.5	110.3	136.2
12.5	109.2	110.2	111.1	110.9	111.5	112.8	113.8	115.9	116.6	114.5	108.9	135.6
16.0	109.0	109.8	111.2	112.0	111.8	113.1	113.8	115.5	116.0	113.7	108.3	135.5
20.0	107.9	109.2	110.7	111.7	111.6	112.5	113.3	114.7	115.2	112.7	107.0	134.9
25.0	107.5	108.8	110.3	111.9	111.7	112.9	113.6	114.1	114.7	112.1	106.9	134.7
31.5	106.9	108.5	110.3	111.8	112.0	112.7	113.2	114.1	114.4	111.8	106.0	134.6
40.0	106.7	108.6	110.6	112.0	112.0	113.4	112.6	114.5	114.6	112.3	106.7	134.8
50.0	106.3	108.2	110.2	111.9	112.1	113.6	113.7	114.5	114.8	112.4	106.7	135.0
63.0	105.6	107.4	109.7	111.6	112.3	113.4	113.6	114.6	114.7	112.5	106.2	134.9
80.0	105.9	107.6	110.5	111.9	113.0	113.8	114.5	115.7	116.7	113.6	107.3	135.8
100.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

OAPWL = 150.7

OSPL	121.7	122.0	122.8	123.6	123.9	125.3	126.9	129.6	132.5	134.5	133.9	

STAND X206 RIG ID 070530 TEST DATE 03/02/77 SCALE RATIO 12.0/1 RUN NUMEER 2008 CONDITION 8304

			PRIMARY	FAN		PRIMARY	FAN				PRIMARY	FAN
TEMP 77.0(F) 25.0(C)	AREA	SQFT	8.640	11.520	SQM	0.803	1.070	MASS FLOW	LB/S	267.8	1154.9	KG/S	121.5	523.9
PRES 30.06IN 1.02BAR	P.R.		1.46	3.18		1.46	3.18	THRUST,IDL	LB	11197.3	74401.6	KN	49.808	330.953
WIND D	TEMP	(R)	1465.7	1256.7	(K)	814.3	698.2	THRUST,MEA	LB		0.0	KN	0.0	
WIND V 0MPH 0.0M/S	RHO	LB/FT3	0.030	0.043	KG/M3	0.481	0.690	AREA (MOD)	SQFT	0.060	0.080	SQM	0.006	0.007
REL H 70.0%	VEL	FPS	1346.2	2074.4	M/S	410.3	632.3	W (MODEL)	LB/S	1.9	8.0	KG/S	0.8	3.6

FAA DAY

1/3 OCTAVE BAND ENGINE JET NOISE DATA 150.0FT RADIUS (SCALED ENGINE)

BAND CENTER FREQ (KHZ)	MICROPHONE ANGLES IN DEGREES 50	70	80	90	100	110	120	130	140	150	160	POWER 1E-12W
.050	105.0	104.4	104.3	105.7	106.1	107.8	110.7	116.7	122.1	125.4	125.2	
.063	105.5	104.9	105.5	106.8	107.5	108.4	111.0	117.1	122.3	126.0	125.1	161.1
.080	106.3	106.4	105.7	106.7	108.2	110.5	112.6	117.6	121.8	125.6	125.9	161.4
.100	106.9	106.2	106.9	107.4	108.7	110.4	113.3	117.8	120.8	124.7	124.5	161.5
.125	106.7	107.0	107.1	108.0	108.8	110.8	113.7	117.9	120.2	124.4	124.6	160.8
.160	106.5	106.3	106.8	107.8	109.2	111.3	114.6	117.9	120.0	124.4	123.4	160.6
.200	105.4	106.0	106.6	108.1	109.5	112.0	115.4	118.4	120.9	124.9	123.7	160.5
.250	106.8	106.3	106.9	108.1	109.6	112.5	116.0	118.5	122.5	125.3	121.5	161.6
.315	113.2	109.2	107.4	108.1	109.8	112.9	116.2	118.6	123.1	122.9	118.7	161.5
.400	115.4	114.2	111.1	108.9	109.9	112.7	116.1	118.5	122.9	120.7	116.6	160.9
.500	112.7	114.0	114.7	112.4	110.8	113.0	116.0	118.9	121.8	119.5	115.1	160.7
.630	110.5	111.4	113.3	114.3	112.3	113.1	115.5	118.6	120.0	117.9	113.0	160.5
.800	111.5	111.5	111.7	113.1	113.7	113.7	115.4	118.2	119.3	116.9	111.7	159.8
1.000	110.5	111.5	112.4	112.2	112.8	114.1	115.1	117.2	117.9	115.8	110.2	159.2
1.250	110.2	111.0	112.4	113.2	113.0	114.3	115.0	116.7	117.2	114.9	109.5	158.5
1.600	109.6	110.3	111.8	112.8	112.7	113.6	114.4	115.8	116.3	113.8	108.1	158.3
2.000	108.6	109.9	111.4	113.0	112.8	114.0	114.1	115.2	115.8	113.2	108.0	157.6
2.500	107.8	109.4	111.2	112.7	112.9	113.6	114.1	115.0	115.3	112.7	106.9	157.3
3.150	107.4	109.3	111.3	112.7	112.7	114.1	113.3	115.2	115.3	113.0	107.4	157.1
4.000	106.8	108.7	110.6	112.4	112.6	114.1	114.2	115.0	115.3	112.9	107.2	157.1
5.000	105.9	107.7	110.0	111.9	112.6	113.7	113.9	114.9	115.0	112.8	106.5	157.0
6.300	105.9	107.6	110.5	111.9	113.0	113.8	114.5	115.7	116.7	113.6	107.3	156.7
8.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	157.3
10.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
												0.0

OAPWL = 173.1

OSPL	122.9	123.1	123.8	124.6	124.8	126.2	128.0	130.7	133.5	135.2	133.9
PNL	133.0	134.1	135.5	136.6	136.8	138.2	139.1	140.9	142.2	141.2	137.7

200. SIDELINE

PNL	128.9	130.8	132.6	133.9	133.9	134.9	135.0	135.7	135.2	132.1	125.1

370. SIDELINE

PNL	122.8	124.7	126.5	127.8	127.8	128.8	128.7	129.4	128.9	126.1	119.0

800. SIDELINE

PNL	114.6	116.2	118.0	119.2	119.3	120.1	120.2	120.6	120.6	117.9	110.7

2128. SIDELINE

PNL	103.0	103.9	105.1	106.1	106.0	106.8	107.2	108.1	108.7	106.4	99.2

STAND X206 RIG ID 070530 TEST DATE 03/02/77 SCALE RATIO 12.0/1 RUN NUMBER 20083 CONDITION 8305

			PRIMARY	FAN		PRIMARY	FAN			PRIMARY	FAN		PRIMARY	FAN
TEMP 69°F (20.6°C)	AREA	SQFT	0.0	0.0	SQM	0.0	0.0	MASS FLOW	LB/S	0.0	0.0	KG/S	0.0	0.0
PRES 30.07IN 1.02BAR	P.R.		1.51	1.79		1.51	1.53	THRUST,IDL	LB	87.2	216.6	KN	0.388	0.963
WIND D	TEMP	(R)	1431.7	1949.7	(K)	795.4	1083.2	THRUST,MEA	LB		0.0	KN	0.0	
WIND V 0.0MPH 0.0M/S	RHO	LB/FT3	0.031	0.024	KG/M3	0.498	0.378	AREA (MOD)	SQFT	0.060	0.080	SQM	0.006	0.007
REL H 23%	VEL	FPS	1390.0	1905.3	M/S	423.7	580.7	W (MODEL)	LB/S	2.0	3.7	KG/S	0.9	1.7

1/3 OCTAVE BAND MODEL JET NOISE DATA 15.0FT RADIUS THEORETICAL DAY SPL - (MODEL)

BAND CENTER FREQ (KHZ)	MICROPHONE ANGLES IN DEGREES 60	70	80	90	100	110	120	130	140	150	160	POWER 1E-12W
.050	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
.063	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
.080	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
.100	84.1	87.3	89.8	90.7	90.2	91.1	93.3	95.9	96.8	100.8	104.5	117.3
.125	85.6	89.4	90.3	92.0	93.2	92.8	92.4	97.2	100.2	103.1	105.4	119.1
.160	90.3	92.6	90.8	90.8	90.1	90.9	92.3	94.9	99.8	104.3	107.5	119.5
.200	89.2	88.6	89.4	91.3	92.3	93.3	96.0	98.1	104.3	109.0	110.7	123.2
.250	90.2	90.6	91.8	93.9	94.4	95.4	97.9	101.6	106.8	110.8	112.1	125.2
.315	92.6	92.6	93.8	95.6	96.2	97.3	100.3	104.6	108.6	113.5	115.9	127.9
.400	95.0	94.9	95.8	97.1	98.1	100.0	103.1	107.9	112.4	116.2	118.0	130.7
.500	95.8	96.5	96.5	98.1	98.5	100.4	103.8	109.1	114.3	118.1	119.9	131.8
.630	97.6	97.6	98.5	100.1	100.6	102.4	106.0	110.5	115.3	118.5	117.5	132.7
.800	98.0	98.8	99.2	100.7	101.4	103.0	106.1	108.7	115.0	118.4	116.5	132.4
1.00	99.4	99.6	99.7	101.6	102.9	104.9	107.7	106.3	114.5	117.9	117.8	132.3
1.25	99.8	99.8	100.7	101.8	103.2	104.8	108.1	109.0	113.1	116.6	116.3	132.6
1.60	99.1	100.0	100.9	102.3	103.4	105.3	108.4	110.4	111.9	115.8	115.6	131.2
2.00	98.9	100.1	101.0	102.5	103.9	105.9	109.2	110.2	111.2	114.4	114.1	130.6
2.50	99.4	100.3	101.2	103.3	104.7	107.0	109.8	110.6	111.2	115.1	115.5	131.2
3.15	99.1	100.1	101.5	103.1	104.9	107.3	110.0	109.8	111.3	115.6	114.5	131.3
4.00	98.7	100.0	101.5	103.3	105.4	107.9	110.2	109.9	111.9	115.9	113.8	131.5
5.00	98.0	99.2	100.2	102.9	104.9	107.5	109.6	109.5	111.8	114.9	111.6	130.9
6.30	97.7	98.9	101.0	103.1	105.0	107.7	109.4	109.6	112.5	113.6	109.7	130.6
8.00	96.1	98.4	100.7	103.0	104.9	107.3	108.8	108.5	111.7	111.8	107.9	129.7
10.0	95.5	97.9	100.3	102.7	104.8	107.0	108.2	108.0	110.7	110.3	106.3	128.9
12.5	95.1	97.4	99.9	102.6	104.5	106.6	107.5	107.6	109.1	109.0	104.3	128.1
16.0	94.8	97.3	100.0	102.6	104.8	106.7	107.2	106.8	108.5	107.9	103.3	127.7
20.0	93.7	96.4	99.3	101.9	104.0	105.6	106.1	105.9	106.8	106.4	101.5	126.6
25.0	93.0	95.7	98.8	101.7	103.5	105.6	105.2	104.8	105.7	105.5	101.2	126.0
31.5	92.4	95.5	98.7	101.2	103.2	104.9	105.0	104.0	105.2	104.8	100.1	125.4
40.0	92.0	95.1	98.6	101.0	102.6	104.8	104.1	103.4	105.0	105.0	100.1	125.1
50.0	91.4	94.5	97.4	100.3	101.9	104.0	103.9	104.4	104.3	104.4	99.8	124.7
63.0	90.2	93.0	96.3	99.1	101.1	102.9	103.0	102.6	103.4	103.8	99.2	123.7
80.0	90.3	92.7	96.2	98.8	100.9	102.3	102.9	103.0	104.4	104.6	99.6	123.8
100.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
OSPL	110.7	112.0	113.6	115.7	117.4	119.5	121.3	122.1	125.4	128.4	127.7	OAPWL = 144.0

STAND XZ06 RIG ID 070530 TEST DATE 03/02/77 SCALE RATIO 12.0/1 RUN NUMBER 2008 CONDITION 8305

					PRIMARY	FAN		PRIMARY	FAN			PRIMARY	FAN		PRIMARY	FAN
TEMP	77.0(F)	25.0(C)	AREA	SQFT	8.640	11.520	SQM	0.803	1.070	MASS FLOW	LB/S	290.9	527.0	KG/S	131.9	239.1
PRES	30.071N	1.02BAR	P.R.		1.51	1.79		1.51	1.79	THRUST,IDL	LB	12556.7	31185.5	KN	55.855	138.719
WIND D			TEMP	(R)	1431.7	1949.7	(K)	795.4	1083.2	THRUST,MEA	LB		0.0	KN	0.0	
WIND V	0MPH	0.0M/S	RHO	LB/FT3	0.031	0.024	KG/M3	0.498	0.378	AREA (MOD)	SQFT	0.060	0.080	SQM	0.006	0.007
REL H	70.0%		VEL	FPS	1360.0	1905.3	M/S	423.7	580.7	W (MODEL)	LB/S	2.0	3.7	KG/S	0.9	1.7

FAA DAY 1/3 OCTAVE BAND ENGINE JET NOISE DATA 150.0FT RADIUS (SCALED ENGINE)

BAND CENTER FREQ (KHZ)	MICROPHONE ANGLES IN DEGREES 60	70	80	90	100	110	120	130	140	150	160	PWER 1E-12W
.050	99.4	99.2	100.1	101.7	102.4	104.0	107.6	112.1	116.9	120.1	119.1	155.9
.063	99.6	100.4	100.8	102.3	103.0	104.6	107.7	110.3	116.6	120.0	118.1	155.6
.080	101.0	101.2	101.5	103.2	104.5	106.5	109.3	107.9	116.1	119.5	119.4	155.5
.100	100.4	101.4	102.3	103.4	104.8	106.4	109.7	110.6	114.7	118.2	117.9	154.7
.125	100.7	101.8	102.5	103.9	105.0	106.9	110.0	112.0	113.5	117.4	117.2	154.4
.160	100.4	101.6	102.5	104.0	105.4	107.4	110.7	111.7	112.7	115.9	115.6	153.7
.200	100.9	101.8	102.9	104.8	106.2	108.5	111.3	112.1	112.7	116.6	117.0	154.4
.250	100.6	101.6	103.0	104.6	106.4	108.8	111.5	111.3	112.8	117.1	116.0	154.4
.315	100.2	101.5	103.0	104.8	106.9	109.4	111.7	111.4	113.4	117.4	115.3	154.6
.400	99.5	100.7	102.3	104.4	106.4	109.0	111.1	111.0	113.3	116.4	113.1	153.9
.500	99.1	100.3	102.4	104.5	106.4	109.1	110.8	111.0	113.9	115.0	111.1	152.6
.630	97.5	99.8	102.1	104.4	106.3	108.7	110.2	109.9	113.1	113.2	109.3	152.7
.800	95.9	99.3	101.7	104.1	106.2	108.4	109.6	109.4	112.1	111.7	107.7	151.9
1.00	95.4	98.7	101.2	103.9	105.8	107.9	108.8	108.9	110.4	110.3	105.6	151.0
1.25	96.0	98.5	101.2	103.8	106.0	107.9	108.4	108.0	109.7	109.1	104.5	150.6
1.60	94.8	97.5	100.4	103.0	105.1	106.7	107.2	107.0	107.9	107.5	102.7	149.3
2.00	94.1	96.8	99.9	102.8	104.6	106.7	106.3	105.9	106.8	106.6	102.3	148.6
2.50	93.3	96.4	99.6	102.1	104.1	105.8	105.9	104.9	106.1	105.7	101.0	147.9
3.15	92.7	95.8	99.3	101.7	103.3	105.5	104.8	104.1	105.7	105.7	100.8	147.4
4.00	91.9	95.0	97.9	100.8	102.4	104.5	104.4	104.9	104.8	104.9	100.3	146.7
5.00	90.5	93.3	96.6	99.4	101.4	103.2	103.3	102.9	103.7	104.1	99.5	145.5
6.30	90.3	92.7	96.2	98.8	100.9	102.5	102.9	103.0	104.4	104.6	99.6	145.3
8.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

OAPWL = 166.2

OSPL	111.7	113.0	114.7	116.7	118.4	120.6	122.5	123.0	126.0	128.8	127.6	
PNL	119.9	122.2	124.8	127.1	128.9	131.0	131.6	131.7	133.3	134.4	131.7	
				200. SIDELINE								
PNL	115.8	118.9	122.0	124.4	126.0	127.7	127.6	126.4	126.4	125.4	119.1	
				370. SIDELINE								
PNL	109.8	112.9	116.0	118.4	120.0	121.6	121.6	120.1	120.2	119.4	113.0	
				800. SIDELINE								
PNL	101.4	104.6	107.6	110.1	111.8	113.2	113.3	111.7	112.0	111.3	104.7	
				2128. SIDELINE								
PNL	89.9	92.6	95.1	97.6	99.2	100.8	101.5	100.1	100.3	99.6	93.1	

ORIGINAL PAGE IS OF POOR QUALITY

STAND X206 R16 ID 070530 TEST DATE 03/02/77 SCALE RATIO 12.0/1 RUN NUMBER 20083 CONDITION 8306

					PRIMARY	FAN		PRIMARY	FAN			PRIMARY	FAN		PRIMARY	FAN
TEMP	70°F	21.1°C	AREA	SQFT	0.0	0.0	SQM	0.0	0.0	MASS FLOW	LB/S	0.0	0.0	KG/S	0.0	0.0
PRES	30.07IN	1.02BAR	P.R.		1.53	2.48		1.53	2.48	THRUST,IDL	LB	84.9	366.2	KN	0.378	1.629
WIND D			TEMP	(R)	1425.7	1948.7	(K)	792.1	1082.6	THRUST,MEA	LB		0.0	KN	0.0	
WIND V	0MPH	0.0M/S	RHO	LB/FT3	0.031	0.026	KG/M3	0.501	0.409	AREA (MOD)	SQFT	0.060	0.080	SQM	0.006	0.007
REL H	23%		VEL	FPS	1401.9	2335.2	M/S	427.3	711.8	W (MODEL)	LB/S	1.9	5.1	KG/S	0.9	2.3

1/3 OCTAVE BAND MODEL JET NOISE DATA 15.0FT RADIUS THEORETICAL DAY SPL - (MODEL)

BAND CENTER FREQ (KHZ)	MICROPHONE ANGLES IN DEGREES 60	70	80	90	100	110	120	130	140	150	160	POWER IE-12W
.050	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
.063	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
.080	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
.100	88.6	91.9	94.2	94.2	93.7	94.7	96.4	98.8	100.1	104.7	108.7	121.0
.125	89.8	93.7	94.2	95.8	96.8	96.4	95.5	99.9	103.4	106.8	109.6	122.7
.160	95.4	97.2	95.6	94.8	94.6	94.9	96.1	98.3	103.6	108.6	112.1	123.8
.200	93.7	92.6	93.6	95.1	96.2	97.2	99.4	101.5	106.1	113.0	115.1	127.2
.250	94.5	94.4	95.3	97.1	97.9	99.2	101.0	104.6	110.4	115.2	117.0	129.3
.315	96.1	96.1	97.6	99.0	99.9	100.9	104.0	108.5	112.7	118.0	120.8	132.4
.400	99.4	98.8	99.2	100.2	101.6	103.7	106.7	111.6	116.8	120.6	122.8	135.1
.500	99.8	100.5	100.0	101.1	101.9	104.3	107.3	113.1	119.0	123.0	120.8	136.5
.630	102.2	101.7	102.2	103.4	104.1	105.9	109.6	114.8	120.2	123.5	122.5	137.5
.800	102.6	102.8	103.0	104.1	105.1	106.6	109.8	113.2	120.2	123.8	121.7	137.5
1.00	104.1	104.0	103.4	104.9	106.4	108.6	111.9	111.3	120.2	123.9	123.2	137.8
1.25	104.1	104.3	104.8	105.4	107.0	108.9	112.7	114.2	119.1	123.1	122.2	137.3
1.60	104.3	104.3	104.9	105.9	107.2	109.3	113.0	115.6	118.5	123.3	121.9	137.5
2.00	104.1	104.2	105.0	106.3	107.7	110.2	114.1	115.7	118.6	123.2	120.9	137.4
2.50	103.7	104.3	105.3	106.7	108.5	111.2	114.9	116.4	119.7	123.3	120.7	137.9
3.15	103.2	104.1	105.4	106.9	108.9	111.8	115.3	116.2	121.0	122.8	117.9	137.9
4.00	103.0	104.2	105.6	107.5	109.6	112.5	115.7	117.2	122.0	120.8	115.7	137.9
5.00	103.1	104.0	105.5	107.4	109.6	112.4	115.4	117.6	121.4	118.9	113.8	137.3
6.30	104.1	104.3	106.0	107.8	109.9	113.0	115.6	118.6	120.0	117.5	112.2	136.9
8.00	103.8	105.0	106.2	107.9	110.1	112.9	115.2	117.9	118.3	116.0	110.5	136.1
10.0	102.5	105.1	106.7	108.2	110.2	112.9	114.8	117.0	117.6	114.9	109.2	135.5
12.5	101.7	104.1	106.6	108.4	110.2	112.7	114.3	116.1	116.3	113.8	107.9	134.8
16.0	101.6	104.0	106.6	108.8	110.8	112.9	114.2	115.6	116.0	113.1	107.3	134.6
20.0	100.7	103.4	105.9	108.1	110.3	112.1	113.3	114.4	114.5	111.5	105.6	133.6
25.0	100.1	102.7	105.8	108.0	110.1	112.3	112.6	113.6	113.8	111.2	105.8	133.2
31.5	99.8	102.5	105.9	108.0	110.2	112.6	112.8	113.4	113.8	111.0	105.0	133.1
40.0	99.6	102.5	106.1	108.1	109.9	112.2	112.1	113.3	113.7	111.3	105.2	133.0
50.0	98.9	101.9	104.9	107.3	109.5	111.9	112.6	114.7	113.3	110.9	105.2	133.1
63.0	97.9	100.8	104.1	106.6	109.2	111.4	112.3	113.5	112.9	110.6	104.8	132.5
80.0	97.9	100.5	104.3	106.6	109.4	111.5	112.8	114.6	114.4	111.6	105.2	133.2
100.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

CAPBL = 150.1

OSPL 116.2 117.3 119.0 120.7 122.7 125.1 127.3 129.3 132.3 134.2 132.7

STAND X206 RIG ID 670530 TEST DATE 02/02/77 SCALE RATIO 12.0/1 RUN NUMBER 2008 CONDITION 8306

				PRIMARY	FAN		PRIMARY	FAN		PRIMARY	FAN		PRIMARY	FAN
TEMP	77.0(F)	25.0(C)	AREA	SQFT	8.640	11.520	SQM	0.803	1.070	MASS FLOW	LB/S	280.8	727.2	KG/S	127.4	329.9
PRES	30.07IN	1.02BAR	P.R.		1.53	2.48		1.53	2.48	THRUST,IDL	LB	12225.1	52738.2	KN	54.380	234.590
WIND D			TEMP	(R)	1425.7	1948.7	(K)	792.1	1082.6	THRUST,MEA	LB		0.0	KN	0.0	
WIND V	0MPH	0.0M/S	RHO	LB/FT3	0.031	0.026	KG/M3	0.501	0.409	AREA (MOD)	SQFT	0.060	0.080	SQM	0.006	0.007
REL H	70.0%		VEL	FPS	1401.9	2335.2	M/S	427.3	711.8	W (MODEL)	LB/S	1.9	5.1	KG/S	0.9	2.3

FAA DAY

1/3 OCTAVE BAND ENGINE JET NOISE DATA 150.0FT RADIUS (SCALED ENGINE)

BAND CENTER FREQ (HZ) — MICROPHONE ANGLES IN DEGREES

	60	70	80	90	100	110	120	130	140	150	160	POWER 1E-12W
.050	103.8	103.3	102.8	105.0	105.7	107.5	111.2	116.4	121.8	125.1	124.1	
.063	104.2	104.4	104.6	105.7	106.7	108.2	111.4	114.8	121.8	125.4	123.3	160.7
.080	105.7	105.6	105.0	106.5	108.0	110.2	113.5	112.9	121.8	125.5	124.8	160.6
.100	105.7	105.9	106.4	107.0	108.6	110.5	114.3	115.8	120.7	124.7	123.8	161.0
.125	105.9	105.9	106.5	107.5	108.8	110.9	114.6	117.2	120.1	124.9	123.5	160.5
.160	105.6	105.7	106.5	107.8	109.2	111.7	115.6	117.2	120.1	124.7	122.4	160.6
.200	105.2	105.8	106.8	108.2	110.0	112.7	116.4	117.9	121.2	124.8	122.2	160.5
.250	104.7	105.6	106.9	108.4	110.4	113.3	116.8	117.7	122.5	124.3	119.4	161.6
.315	104.5	105.7	107.1	109.0	111.1	114.0	117.2	118.7	123.5	122.3	117.2	161.0
.400	104.6	105.5	107.0	108.9	111.1	113.9	116.9	119.1	122.9	120.4	115.3	161.6
.500	105.5	105.7	107.4	109.2	111.3	114.4	117.0	120.0	121.4	118.9	113.6	160.4
.630	105.2	106.4	107.6	109.3	111.5	114.3	116.6	119.3	119.7	117.4	111.9	159.9
.800	103.9	106.5	108.1	109.6	111.6	114.3	116.2	118.4	119.0	116.3	110.6	159.1
1.00	103.0	105.4	107.9	109.7	111.5	114.6	115.6	117.4	117.6	115.1	109.2	158.5
1.25	102.8	105.2	107.8	110.0	112.0	114.1	115.4	116.8	117.2	114.3	108.5	157.7
1.60	103.8	104.5	107.0	109.2	111.4	113.2	114.4	115.5	115.6	112.9	106.9	157.5
2.00	101.2	103.8	106.5	109.1	111.2	113.4	113.7	114.9	114.9	112.3	106.9	156.3
2.50	100.7	103.4	106.8	109.9	111.1	112.7	113.7	114.3	114.7	111.9	105.9	155.9
3.15	100.3	103.2	106.8	108.8	110.6	112.9	112.8	114.0	114.4	112.0	105.9	155.5
4.00	99.4	102.4	105.4	107.8	110.0	112.4	113.1	115.2	113.8	111.4	105.7	155.3
5.00	98.2	101.1	104.4	106.9	109.5	111.7	112.6	113.8	113.2	110.9	105.1	155.1
6.30	97.9	100.5	104.3	106.6	109.4	111.5	112.8	114.6	114.4	111.6	105.2	154.4
8.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	154.7
10.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

OAPWL = 172.5

OSPL	117.2	118.3	120.0	121.8	123.7	126.1	128.4	130.3	133.3	134.9	132.7	
PNL	126.5	128.7	131.3	133.2	135.2	137.5	138.8	140.6	141.5	140.4	136.3	

200. SIDELINE

PNL	122.5	125.4	128.5	130.6	132.4	134.2	134.7	135.3	134.6	131.3	123.8	

370. SIDELINE

PNL	116.4	119.3	122.4	124.5	126.3	128.1	128.6	129.0	128.3	125.4	117.6	

800. SIDELINE

PNL	108.0	110.9	114.0	116.1	117.9	119.6	120.2	120.1	120.3	117.3	109.4	

2128. SIDELINE

PNL	95.9	98.2	101.0	103.1	104.9	106.6	107.7	108.1	108.6	105.8	97.9	

STAND X206 RIG ID 070530 TEST DATE 03/02/77 SCALE RATIO 12.0/1 RUN NUMBER 20083 CONDITION 8307

				PRIMARY	FAN		PRIMARY	FAN			PRIMARY	FAN		PRIMARY	FAN
TEMP	70°F 21.1°C	AREA	SQFT	0.0	0.0	SQM	0.0	0.0	MASS FLOW	LB/S	0.0	0.0	KG/S	0.0	0.0
PRES	30.07IN 1.02BAR	P.R.		1.53	4.07		1.53	4.07	THRUST,IDL	LB	90.9	718.9	KN	0.404	3.196
WIND D		TEMP	(R)	1428.7	1946.7	(K)	793.7	1081.5	THRUST,MEA	LB		0.6	KN	0.0	
WIND V	OMPH 0.0M/S	RHO	LB/FT3	0.031	0.029	KG/M3	0.500	0.462	AREA (MOD)	SQFT	0.060	0.080	SQM	0.006	0.007
REL H	23 %	VEL	FPS	1461.0	2819.4	M/S	427.0	859.4	W (MODEL)	LB/S	2.1	8.2	KG/S	0.9	3.7

1/3 OCTAVE BAND MODEL JET NOISE DATA 15.0FT RADIUS THEORETICAL DAY SPL - (MODEL)

BAND CENTER FREQ (KHZ)	MICROPHONE ANGLES IN DEGREES 60	70	80	90	100	110	120	130	140	150	160	POWER 1E-12W
.050	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
.063	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
.080	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
.100	95.1	98.6	100.1	99.9	99.5	100.5	101.9	104.2	105.6	111.5	115.4	0.0
.125	96.9	100.2	100.5	102.1	102.7	101.8	101.2	104.9	108.7	113.3	116.5	127.2
.160	102.1	103.5	101.3	101.8	101.0	100.9	102.1	103.7	109.1	115.0	118.7	128.8
.200	100.7	99.3	100.2	101.7	102.2	103.5	105.6	107.2	113.9	119.9	121.8	130.1
.250	101.6	101.0	101.4	103.3	104.4	105.6	107.1	110.6	116.1	121.9	123.8	133.8
.315	100.8	101.3	103.3	105.1	106.4	107.1	109.5	114.2	118.3	124.9	127.3	135.8
.400	103.3	104.0	104.5	105.5	107.3	109.3	112.4	117.3	122.7	127.6	129.4	138.6
.500	104.9	105.4	105.2	106.3	107.3	109.4	112.7	119.1	125.5	129.9	127.2	141.6
.630	106.0	106.2	106.9	108.5	109.2	110.8	115.0	121.3	126.9	130.7	128.2	143.1
.800	106.9	107.1	108.0	109.4	110.2	111.6	115.5	119.8	127.6	131.2	127.6	144.2
1.00	107.7	107.9	108.1	109.6	111.6	113.6	117.3	118.0	126.4	131.4	127.8	144.5
1.25	107.2	107.9	108.5	109.8	111.8	114.1	116.4	121.0	128.4	130.8	125.7	144.9
1.60	107.1	107.4	108.4	110.2	111.8	114.4	119.3	122.5	128.5	129.9	124.2	144.7
2.00	107.8	107.7	108.8	110.6	112.4	115.2	120.6	123.2	128.7	127.4	121.3	144.5
2.50	110.9	108.9	109.6	111.4	113.3	116.7	121.8	124.5	128.9	125.5	120.3	143.8
3.15	113.4	112.2	111.1	112.2	114.1	117.5	122.6	125.2	127.6	123.9	118.2	144.0
4.00	112.5	113.3	113.9	113.5	115.0	118.5	123.1	126.4	125.9	122.5	116.6	143.6
5.00	111.6	111.8	113.5	114.8	115.5	118.5	123.0	126.2	124.2	120.6	115.0	143.6
6.30	113.5	112.2	113.1	115.7	116.5	119.1	122.9	125.2	123.4	119.6	113.6	143.0
8.00	112.7	113.6	113.4	115.3	117.0	119.1	122.5	123.2	122.0	118.2	112.1	142.5
10.0	112.9	113.6	114.2	115.4	116.9	118.9	121.9	122.4	121.4	117.3	110.9	141.7
12.5	112.4	113.2	114.3	116.0	116.7	118.5	121.0	121.6	120.2	116.2	109.8	141.2
16.0	112.4	113.3	114.6	116.4	117.1	118.6	120.7	121.1	119.8	115.7	109.4	140.5
20.0	111.6	112.7	114.0	115.8	116.5	117.5	119.7	120.0	118.5	114.7	108.3	140.4
25.0	111.3	112.4	114.0	115.9	116.2	117.7	119.1	119.5	117.7	114.1	108.1	139.5
31.5	111.1	112.6	114.2	115.9	116.3	117.3	119.3	119.1	117.6	113.8	107.5	139.2
40.0	110.9	112.5	114.5	116.2	116.4	117.9	118.8	118.9	117.5	114.3	107.8	139.0
50.0	110.7	112.3	113.9	115.9	116.3	117.7	119.2	120.4	117.3	114.1	107.9	139.1
63.0	109.9	111.7	113.5	115.6	116.4	117.5	119.1	119.0	117.1	113.8	107.5	139.3
80.0	110.0	111.5	114.1	115.8	116.9	118.1	119.8	120.0	118.3	114.8	108.1	138.9
100.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	139.6
												0.0
OAPWL = 156.4												
OSPL	124.7	125.2	126.3	127.9	128.9	130.8	134.1	136.1	138.9	140.1	137.4	

STAND X206 RIG ID 070530 TEST DATE 03/02/77 SCALE RATIO 12.0/1 RUN NUMBER 2008 CONDITION 8307

			PRIMARY	FAN		PRIMARY	FAN		PRIMARY	FAN		PRIMARY	FAN
TEMP	77.0(F)	25.0(C)	AREA SQFT	8.640	11.520	SQM	0.803	1.070	MASS FLOW LB/S	301.0	1182.2	KG/S	136.5	536.3
PRES	30.07IN	1.02BAR	P.R.	1.53	4.07		1.53	4.07	THRUST,IDL LB	13094.3	103516.7	KN	58.246	460.463
WIND D			TEMP (R)	1428.7	1946.7	(K)	793.7	1081.5	THRUST,MEA LB		0.0	KN	0.0	
WIND V	0MPH	0.0M/S	RHO LB/FT3	0.031	0.029	KG/M3	0.500	0.462	AREA (MOD) SQFT	0.060	0.060	SQM	0.006	0.007
REL H	70.0%		VEL FPS	1401.0	2819.4	M/S	427.0	859.4	W (MODEL) LB/S	2.1	6.2	KG/S	0.9	2.7

FAA DAY

1/3 OCTAVE BAND ENGINE JET NOISE DATA 150.0FT RADIUS (SCALED ENGINE)

BAND CENTER FREQ (KHZ) — MICROPHONE ANGLES IN DEGREES

	60	70	80	90	100	110	120	130	140	150	160	POWER 1E-12W
.050	107.6	107.8	108.5	110.1	110.8	112.4	116.6	122.9	128.5	132.3	129.8	
.063	108.5	108.7	109.6	111.0	111.8	113.2	117.1	121.4	129.2	132.8	129.2	167.4
.080	109.3	109.5	109.7	111.2	113.2	115.2	118.9	119.6	130.0	133.0	129.4	167.7
.100	108.8	109.5	110.1	111.4	113.4	115.7	120.0	122.6	130.0	132.4	127.3	168.1
.125	108.7	109.0	110.0	111.8	113.4	116.0	120.9	124.1	130.1	131.5	125.8	167.8
.160	109.3	109.2	110.3	112.1	113.9	116.7	122.1	124.7	130.2	128.9	122.8	167.6
.200	112.4	110.4	111.1	112.9	114.8	116.2	123.3	126.0	130.4	127.0	121.8	167.6
.250	114.9	113.7	112.6	113.7	115.6	119.0	124.1	126.7	129.1	125.4	119.7	167.1
.315	114.0	114.8	115.4	115.0	116.5	120.0	124.6	127.9	127.4	124.0	118.1	166.7
.400	113.3	113.5	115.0	116.3	117.0	120.0	124.5	127.7	125.7	122.1	116.5	166.8
.500	114.9	113.6	114.5	117.1	117.9	120.5	124.3	126.6	124.8	121.0	115.0	166.6
.630	114.6	115.0	114.8	116.7	118.4	120.5	123.9	124.6	123.4	119.6	113.5	165.5
.800	114.3	115.0	115.6	116.8	118.3	120.3	123.3	123.8	122.8	118.7	112.3	164.7
1.00	113.7	114.5	115.6	117.3	118.0	119.8	122.3	122.9	121.5	117.5	111.1	164.1
1.25	113.6	114.5	115.6	117.6	118.3	119.8	121.9	122.3	121.0	116.9	110.6	163.4
1.60	112.7	113.8	115.1	116.9	117.6	118.6	120.8	121.1	119.6	115.8	109.4	163.2
2.00	112.4	113.5	115.1	117.0	117.3	118.8	120.2	120.6	118.8	115.2	109.2	162.2
2.50	112.0	113.5	115.1	116.8	117.2	118.2	120.2	120.0	118.5	114.7	108.4	161.8
3.15	111.6	113.2	115.2	116.9	117.1	118.6	119.5	119.6	118.2	115.0	108.5	161.5
4.00	111.2	112.8	114.4	116.4	116.8	118.2	119.7	120.9	117.8	114.6	108.4	161.3
5.00	110.2	112.6	113.8	115.9	116.7	117.8	119.4	119.3	117.4	114.1	107.8	161.3
6.30	110.0	111.5	114.1	115.8	116.9	118.1	119.8	120.0	118.3	114.8	108.1	160.8
8.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	161.1
10.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
												0.0

OAPWL = 178.8

OSPL	125.7	126.2	127.3	128.9	129.9	131.9	135.3	137.3	140.0	140.6	136.3
PNL	136.7	137.7	139.2	140.9	141.5	143.3	145.5	146.8	146.3	143.9	138.4

200. SIDELINE

PNL	132.6	134.4	136.3	138.2	138.7	140.0	141.4	141.5	139.4	134.9	125.8

370. SIDELINE

PNL	126.4	128.3	130.2	132.1	132.6	133.8	135.3	135.2	133.4	128.9	119.7

800. SIDELINE

PNL	117.9	119.8	121.7	123.6	124.1	125.3	126.9	126.8	125.5	120.9	111.5

2128. SIDELINE

PNL	105.0	106.6	108.5	110.4	111.0	112.2	114.7	115.3	114.3	109.8	100.2

20083F TAPE P7308 NASA VSCE (NAS3-20061) CONFIG. A

STAND X206 RIG ID C70530 TEST DATE 03/02/77 SCALE RATIO 12.0/1 RUN NUMBER 20083 CONDITION 8308

					PRIMARY	FAN			PRIMARY	FAN				PRIMARY	FAN		PRIMARY	FAN
TEMP	72°F	22.2°C	AREA	SQFT	0.6	0.6	SQM	0.0	0.0	MASS FLOW	LB/S	0.0	0.0	KG/S	0.0	0.0
PRES	30.07IN	1.02BAR	P.R.		2.00	1.29		2.00	1.29	THRUST,IDL	LB	175.3	81.7	KN	0.780	0.363
WIND D			TEMP	(R)	1449.7	1258.7	(K)	805.4	699.3	THRUST,MEA	LB		0.6	KN	0.0	
WIND V		0MPH	0.0M/S	RHO	LB/FT3	0.063	0.034	KG/M3	0.527	0.544	AREA (MOD)	SQFT	0.660	0.080	SQM	0.006	0.007
REL H	21%			VEL	FPS	1774.6	1027.8	M/S	540.9	313.3	W (MODEL)	LB/S	3.2	2.6	KG/S	1.4	1.2

1/3 OCTAVE BAND MODEL JET NOISE DATA 15.0FT RADIUS

THEORETICAL DAY SPL -- (MODEL)

BAND CENTER FREQ (KHZ)	MICROPHONE ANGLES IN DEGREES 60	70	80	90	100	110	120	130	140	150	160	POWER 1E-12W
.050	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
.063	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
.080	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
.100	81.3	84.7	87.0	87.6	86.8	87.7	89.6	92.4	93.3	98.0	102.1	114.3
.125	82.8	87.2	87.3	88.6	89.8	89.9	89.1	93.6	96.8	100.2	102.9	116.0
.160	87.6	90.2	88.1	88.3	87.0	87.9	89.4	91.8	97.2	102.1	105.4	117.2
.200	85.9	86.2	87.3	89.2	90.1	91.0	93.1	95.0	101.1	106.6	108.6	120.7
.250	87.2	87.6	88.8	90.8	91.4	92.7	94.4	98.2	103.9	108.8	110.6	122.9
.315	89.0	89.7	91.2	92.8	93.8	95.0	97.4	101.7	106.1	111.4	114.8	125.9
.400	93.0	93.7	94.0	95.4	96.6	98.4	100.5	105.2	110.3	114.7	117.8	129.3
.500	94.2	94.9	95.0	96.2	96.7	98.9	101.3	106.5	112.6	117.7	116.6	131.0
.630	97.2	96.3	96.8	98.3	98.6	100.3	103.4	109.1	115.0	118.7	118.2	132.6
.800	96.8	97.4	97.7	99.5	99.8	100.9	103.6	108.3	116.6	119.8	117.6	133.4
1.00	98.0	98.3	97.9	99.6	101.1	103.3	106.0	107.4	118.3	120.3	116.4	134.4
1.25	97.5	98.7	98.8	100.6	101.9	103.5	106.4	110.8	118.9	119.9	117.0	134.5
1.60	97.2	98.2	98.5	100.2	101.3	103.4	106.5	112.3	118.7	119.8	116.2	134.5
2.00	96.4	97.0	97.9	99.7	100.9	103.4	106.8	112.0	117.9	118.5	113.7	133.4
2.50	95.4	96.1	97.1	99.1	100.8	103.6	107.1	111.8	116.7	115.9	111.7	132.3
3.15	93.8	94.9	96.5	98.6	100.4	103.3	106.9	110.6	114.7	114.3	106.6	130.5
4.00	93.1	94.4	95.9	98.3	100.2	103.0	106.7	109.7	112.5	110.1	101.0	128.5
5.00	92.4	93.3	94.9	97.4	99.3	102.3	105.7	108.3	109.7	105.5	96.2	126.4
6.30	91.7	92.7	94.5	97.0	98.7	101.6	105.0	107.0	107.3	101.5	91.7	124.8
8.00	90.2	92.1	93.8	96.5	98.0	100.9	103.9	104.6	104.2	97.9	88.2	123.0
10.0	89.3	91.3	93.0	95.7	97.2	99.8	102.7	102.4	101.2	94.7	85.9	121.1
12.5	88.7	90.7	92.3	95.1	96.3	98.8	100.8	100.6	98.4	92.5	84.7	119.7
16.0	88.1	90.1	92.0	94.7	96.0	98.1	99.5	98.7	96.9	91.1	83.8	118.6
20.0	86.9	89.1	90.9	93.4	94.8	96.5	97.7	97.0	94.6	89.7	82.4	117.0
25.0	86.2	88.3	90.4	93.1	94.1	96.1	96.3	95.6	93.4	88.9	82.9	116.2
31.5	85.6	87.8	89.9	92.3	93.4	94.7	95.4	94.3	92.5	88.5	82.6	115.1
40.0	85.3	87.5	89.6	92.1	92.7	94.3	94.2	93.3	91.9	89.0	83.7	114.5
50.0	84.5	86.7	88.6	91.0	91.7	93.4	93.9	94.0	91.3	89.3	84.4	114.0
63.0	83.1	85.4	87.3	89.9	91.0	92.1	92.6	91.9	90.8	89.9	84.6	112.9
80.0	82.7	84.7	87.1	89.2	90.4	91.2	92.0	92.0	92.2	91.7	86.6	112.7
100.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
OSPL	107.5	108.3	109.1	111.0	112.3	114.5	117.5	121.2	127.1	128.8	126.9	OAPWL = 143.5

STAND X206 RIG ID 070536 TEST DATE 03/02/77 SCALE RATIO 12.0/1 RUN NUMBER 2008 CONDITION 8308

			PRIMARY	FAN		PRIMARY	FAN		PRIMARY	FAN		PRIMARY	FAN
TEMP 77.0(F) 25.0(C)	AREA	SQFT	8.640	11.520	SQM	0.805	1.070	MASS FLOW	LB/S	457.9	368.6	KG/S	207.7	167.2
PRES 30.07IN 1.02BAR	P.R.		2.00	1.29		2.00	1.29	THRUST,IDL	LB	25237.5	11766.3	KN	112.261	52.339
WIND D	TEMP	(R)	1449.7	1258.7	(K)	805.4	699.3	THRUST,MEA	LB		0.0	KN	0.0	
WIND V 0MPH 0.0M/S	RHO	LB/FT3	0.033	0.034	KG/M3	0.527	0.544	AREA (MOD)	SQFT	0.080	0.080	SQM	0.006	0.007
REL H 70.0%	VEL	FPS	1774.6	1027.8	M/S	540.9	313.3	W (MODEL)	LB/S	3.2	2.6	KG/S	1.4	1.2

FAA DAY

1/3 OCTAVE BAND ENGINE JET NOISE DATA 150.0FT RADIUS (SCALED ENGINE)

BAND CENTER FREQ (KHZ)	MICROPHONE ANGLES IN DEGREES 60	70	80	90	100	110	120	130	140	150	160	POWER 1E-12W
.050	98.8	97.9	98.4	99.9	100.2	101.9	105.0	110.7	116.6	120.3	119.8	
.063	98.4	99.0	99.3	101.1	101.4	102.5	105.2	109.9	118.2	121.4	119.2	155.7
.080	99.6	99.9	99.5	101.2	102.7	104.9	107.6	109.0	119.9	121.9	120.0	156.6
.100	99.1	100.3	100.4	101.6	103.5	105.1	108.0	112.4	120.5	121.5	118.6	157.5
.125	98.8	99.6	100.1	101.8	102.9	105.0	108.1	113.9	120.3	121.4	117.8	157.6
.160	97.9	98.5	99.4	101.2	102.4	104.9	108.3	113.5	119.4	120.0	115.2	157.6
.200	96.9	97.6	98.6	100.6	102.3	105.1	108.6	113.3	118.2	118.4	113.2	156.5
.250	95.3	96.4	98.0	100.1	101.9	104.8	108.4	112.1	116.2	115.8	108.1	155.5
.315	94.6	95.9	97.4	99.8	101.7	104.5	108.2	111.2	114.0	111.6	102.5	155.6
.400	93.9	94.8	96.4	98.9	100.8	103.8	107.2	109.8	111.2	107.0	97.7	151.6
.500	93.1	94.1	95.9	98.4	100.1	103.0	106.4	108.4	108.7	102.9	93.1	149.5
.630	91.6	93.5	95.2	97.9	99.4	102.3	105.3	106.6	105.6	99.3	89.6	147.8
.800	90.7	92.7	94.4	97.1	98.6	101.2	103.6	103.8	102.6	96.1	87.3	146.0
1.00	90.0	92.0	93.6	96.4	97.6	100.1	102.1	101.9	99.7	93.8	86.0	144.1
1.25	89.3	91.3	93.2	95.9	97.2	99.3	100.7	99.9	98.1	92.3	85.0	142.6
1.60	88.0	90.2	92.6	94.5	95.9	97.6	98.8	98.1	95.7	90.8	82.5	141.4
2.00	87.3	89.4	91.5	94.2	95.2	97.2	97.4	96.7	94.5	90.0	84.0	139.7
2.50	86.5	88.7	90.8	93.2	94.3	95.6	96.3	95.2	93.4	89.4	83.5	138.8
3.15	85.6	88.2	90.3	92.8	93.4	95.0	94.9	94.0	92.6	89.7	84.4	137.6
4.00	85.6	87.2	89.1	91.5	92.2	93.9	94.4	94.5	91.8	89.8	84.9	136.8
5.00	83.4	85.7	87.6	90.2	91.3	92.4	92.9	92.2	91.1	90.2	84.9	136.1
6.30	82.7	84.7	87.1	89.2	90.4	91.2	92.0	92.0	92.2	91.7	86.6	134.8
8.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	134.3
10.0+	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
												0.0

OAPWL = 166.0

OSPL	108.3	109.2	110.0	112.0	113.3	115.6	118.7	122.4	128.3	129.6	126.8
PNL	114.2	115.9	117.5	119.9	121.0	122.9	124.9	127.0	130.2	129.5	124.9

200. SIDELINE

PNL	110.2	112.6	114.7	117.2	118.1	119.7	121.0	122.0	123.7	120.7	112.6

370. SIDELINE

PNL	104.2	106.8	108.7	111.2	112.2	113.7	115.3	116.3	118.0	115.0	106.8

800. SIDELINE

PNL	96.1	98.4	100.6	103.1	104.2	105.9	107.7	108.8	110.6	107.5	99.3

2126. SIDELINE

PNL	84.9	87.2	89.1	91.6	93.0	94.9	96.7	98.3	100.4	97.5	89.0

STAND X206 RIG ID 070536 TEST DATE 03/02/77 SCALE RATIO 12.0/1 RUN NUMBER 20083 CONDITION 8309

				PRIMARY	FAN		PRIMARY	FAN			PRIMARY	FAN		PRIMARY	FAN
TEMP	72°F	22.2°C	AREA SQFT	0.0	0.0	SQM	0.0	0.0	MASS FLOW	LB/S	0.0	0.0	KG/S	0.0	0.0
PRES	30.07IN	1.02BAR	P.R.	2.00	1.80		2.00	1.80	THRUST,IDL	LB	171.2	210.4	KN	0.762	0.936
WIND D			TEMP (R)	1461.7	1270.7	(K)	812.1	705.9	THRUST,MEA	LB		0.0	KN	0.0	
WIND V	0MPH	0.0M/S	RHO LB/FT3	0.033	0.037	KG/M3	0.523	0.586	AREA (MOD)	SQFT	0.060	0.080	SQM	0.006	0.007
REL H	21%		VEL FPS	1784.3	1543.1	M/S	543.8	470.3	W (MODEL)	LB/S	3.1	4.4	KG/S	1.4	2.0

1/3 OCTAVE BAND MODEL JET NOISE DATA 15.0FT RADIUS THEORETICAL DAY SPL - (MODEL)

BAND CENTER FREQ (KHZ)	MICROPHONE ANGLES IN DEGREES 60	70	80	90	100	110	120	130	140	150	160	POWER 1E-12W
.050	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
.063	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
.080	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
.100	85.3	88.8	90.8	91.1	90.4	91.3	93.1	95.9	97.2	101.8	106.0	118.0
.125	86.8	91.0	90.8	92.4	93.6	93.2	92.2	96.5	100.1	103.7	106.6	119.5
.160	91.7	94.2	91.8	92.1	90.9	91.5	92.6	95.0	100.2	105.5	108.9	120.6
.200	90.4	90.0	91.1	92.9	93.6	94.3	96.3	98.4	104.4	109.8	112.1	124.0
.250	90.8	91.1	92.4	94.4	95.1	96.3	97.6	101.6	106.9	111.9	113.9	125.1
.315	92.2	92.6	94.4	96.1	96.9	98.1	100.5	105.0	108.9	114.6	117.8	129.0
.400	95.8	96.4	96.2	97.7	99.2	101.1	103.5	108.3	113.3	117.6	120.4	132.1
.500	96.8	97.7	97.5	98.9	99.3	101.3	104.3	109.9	115.8	120.7	119.1	133.9
.630	99.1	98.6	99.3	100.9	101.6	103.4	106.5	112.5	118.1	121.5	120.4	135.4
.800	99.1	99.7	100.0	102.0	102.6	103.8	107.0	111.9	119.6	122.4	119.7	136.2
1.00	100.3	100.7	100.4	102.6	104.0	106.1	108.8	110.4	120.9	122.8	120.5	136.9
1.25	100.3	100.9	101.5	102.8	104.5	106.3	109.3	113.8	121.1	122.5	119.4	137.0
1.60	100.3	100.9	101.5	103.1	104.2	106.3	109.4	114.6	120.8	122.3	118.7	136.8
2.00	99.7	100.1	100.7	102.6	103.9	106.4	109.7	114.3	119.7	120.8	116.5	135.6
2.50	98.7	99.5	100.5	102.5	104.1	106.7	110.0	114.1	118.2	119.6	115.6	134.5
3.15	97.7	98.7	99.9	102.2	103.7	106.6	109.8	112.8	116.3	116.1	112.6	132.7
4.00	97.1	98.3	99.7	101.9	103.6	106.5	109.6	112.0	114.2	113.2	110.3	131.2
5.00	96.5	97.4	98.9	101.2	103.1	106.6	108.8	110.7	111.5	110.6	108.0	129.4
6.30	95.3	97.1	98.8	101.1	102.7	105.4	106.1	109.5	109.5	108.4	105.9	128.2
8.00	94.8	96.5	98.3	100.7	102.3	104.7	107.1	107.4	107.1	106.6	103.7	126.8
10.0	93.8	95.9	97.7	100.2	101.8	104.1	106.0	105.7	105.4	104.8	101.9	125.6
12.5	93.7	95.5	97.4	99.8	101.2	103.5	105.0	104.6	103.7	103.4	100.1	124.6
16.0	93.1	95.1	97.3	99.7	101.3	103.2	104.3	103.4	102.7	102.2	98.7	123.9
20.0	92.1	94.4	96.5	98.9	100.2	102.1	103.2	102.2	101.0	100.5	96.5	122.8
25.0	91.4	93.8	96.0	98.5	99.6	101.9	102.2	101.4	99.9	99.1	95.7	122.1
31.5	90.8	93.3	96.0	98.1	99.5	101.0	101.5	100.4	99.0	98.1	93.7	121.4
40.0	90.6	92.8	95.8	98.1	98.8	101.0	100.5	99.7	98.4	97.8	93.3	120.9
50.0	90.0	92.4	94.6	97.2	98.0	100.1	100.4	100.4	97.6	97.1	92.9	120.5
63.0	88.8	91.1	93.6	95.9	97.3	98.8	99.3	98.1	96.8	96.5	92.4	119.3
80.0	88.7	90.6	93.6	95.6	97.2	98.2	98.7	98.2	97.7	97.4	93.2	119.1
100.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
OSPL	110.7	111.6	112.6	114.6	115.9	118.1	120.7	123.9	129.4	131.4	129.6	OAPWL = 146.2

STAND X206 RIG ID 070530 TEST DATE 03/02/77 SCALE RATIO 12.0/1 RUN NUMBER 2008 CONDITION 8309

			PRIMARY	FAN		PRIMARY	FAN			PRIMARY	FAN		PRIMARY	FAN
TEMP 77.0(F)	25.0(C)	AREA SQFT	8.640	11.520	SQM	0.803	1.070	MASS FLOW	LB/S	445.0	632.2	KG/S	201.8	286.7
PRES 30.071N	1.02BAR	P.R.	2.60	1.80		2.00	1.80	THRUST,IDL	LB	24655.9	30294.2	KN	109.675	134.755
WIND D		TEMP (R)	1461.7	1270.7	(K)	812.1	705.9	THRUST,MEA	LB		0.0	KN	0.0	
WIND V 0MPH	0.0M/S	RHO LB/FT3	0.033	0.037	KG/M3	0.523	0.588	AREA (MOD)	SQFT	0.060	0.080	SQM	0.006	0.007
REL H 70.0%		VEL FPS	1784.3	1543.1	M/S	543.8	470.3	W (MODEL)	LB/S	3.1	4.4	KG/S	1.4	2.0

FAA DAY

1/3 OCTAVE BAND ENGINE JET NOISE DATA 150.0FT RADIUS (SCALED ENGINE)

BAND CENTER FREQ (KHZ)	MICROPHONE ANGLES IN DEGREES 60	70	80	90	100	110	120	130	140	150	160	POWER 1E-12W
.050	100.7	100.2	100.9	102.5	103.2	105.0	108.1	113.9	119.7	123.1	122.0	
.063	100.7	101.3	101.6	103.6	104.2	105.4	108.6	113.5	121.2	124.0	121.3	158.5
.080	101.9	102.3	102.0	104.2	105.6	107.7	110.4	112.0	122.5	124.4	122.1	159.3
.100	101.9	102.5	103.1	104.4	106.1	107.9	110.9	115.0	122.7	124.1	121.0	160.0
.125	101.9	102.5	103.1	104.7	105.8	107.9	111.0	116.2	122.4	123.9	120.3	160.1
.160	101.2	101.6	102.2	104.1	105.4	107.9	111.2	115.8	121.2	122.3	118.0	160.9
.200	100.2	101.0	102.0	104.0	105.6	108.2	111.5	115.6	119.7	120.5	117.1	158.8
.250	99.2	100.2	101.4	103.7	105.2	108.1	111.3	114.3	117.8	117.6	114.1	157.6
.315	98.6	99.8	101.2	103.4	105.1	108.0	111.1	113.5	115.7	114.7	111.8	155.8
.400	98.0	98.9	100.4	102.7	104.6	107.1	110.3	112.2	113.0	112.1	109.5	154.2
.500	97.7	98.5	100.2	102.5	104.1	106.8	109.5	110.9	110.9	109.8	107.3	152.5
.630	96.2	97.9	99.7	102.1	103.7	106.1	108.5	108.8	108.5	108.0	105.1	151.2
.800	95.2	97.3	99.1	101.6	103.2	105.5	107.4	107.1	106.8	106.2	103.3	149.8
1.00	95.0	96.8	98.7	101.1	102.5	104.8	106.3	105.9	105.0	104.7	101.4	148.5
1.25	94.3	96.3	98.5	100.9	102.5	104.4	105.5	104.6	103.9	103.4	99.9	147.5
1.60	93.2	95.5	97.6	100.0	101.3	103.2	104.3	103.3	102.1	101.6	97.6	146.8
2.00	92.5	94.9	97.1	99.6	100.9	103.0	103.3	102.5	101.0	100.2	96.8	145.5
2.50	91.7	94.2	96.9	99.0	100.4	101.9	102.7	101.3	99.9	99.0	94.6	144.8
3.15	91.3	93.5	96.5	98.8	99.5	101.7	101.3	100.4	99.1	98.5	94.0	143.9
4.00	90.5	92.9	95.1	97.7	98.5	100.6	100.9	100.9	98.1	97.6	93.4	143.2
5.00	89.1	91.4	93.9	96.2	97.6	99.1	99.6	98.4	97.1	96.8	92.7	142.5
6.30	88.7	90.6	93.6	95.6	97.2	98.2	98.7	98.2	97.7	97.4	93.2	141.1
8.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	140.7
10.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
												0.0

OAPWL = 168.6

OSPL	111.6	112.4	113.5	115.6	117.0	119.2	121.9	125.0	130.6	132.2	129.4	
PNL	118.8	120.5	122.6	124.8	126.0	128.1	129.4	130.4	133.0	133.6	130.2	

200. SIDELINE

PNL	114.8	117.2	119.8	122.2	123.2	124.9	125.4	125.4	126.5	124.7	117.9	

370. SIDELINE

PNL	108.7	111.2	113.8	116.2	117.3	118.9	119.5	119.7	120.7	119.0	112.0	

800. SIDELINE

PNL	100.4	103.1	105.5	107.9	109.1	110.6	111.5	112.0	113.2	111.3	104.1	

2128. SIDELINE

PNL	89.0	91.2	93.4	95.8	97.2	98.9	100.4	101.3	102.8	100.9	93.3	

20083F TAPE P7302 NASA VSCE (NAS3-20061) CONFIG. A

STAND X206 RIG ID 070530 TEST DATE 03/01/77 SCALE RATIO 12.0/1 RUN NUMBER 20083 CONDITION 8310

				PRIMARY	FAN		PRIMARY	FAN			PRIMARY	FAN		PRIMARY	FAN
TEMP	70°F	21.1°C	AREA	SQFT	0.0	0.0	SQM	0.0	0.0	MASS FLOW LB/S	0.0	0.0	KG/S	0.0	0.0
PRES	29.80IN	1.01BAR	P.R.		2.00	2.49		2.00	2.49	THRUST,IDL LB	163.1	381.9	KN	0.725	1.699
WIND D			TEMP	(K)	1470.7	1263.7	(K)	817.1	702.1	THRUST,MEA LB		0.0	KN	0.0	
WIND V	0MPH	0.0M/S	RHO	LB/FT3	0.032	0.040	KG/M3	0.520	0.643	AREA (MOD) SQFT	0.060	0.080	SQM	0.006	0.007
REL H	24 %		VEL	FPS	1792.2	1874.8	M/S	546.3	571.4	W (MODEL) LB/S	2.9	6.6	KG/S	1.3	3.0

1/3 OCTAVE BAND MODEL JET NOISE DATA 15.0FT RADIUS THEORETICAL DAY SPL - (MODEL)

BAND CENTER FREQ (KHZ)	MICROPHONE ANGLES IN DEGREES 60	70	80	90	100	110	120	130	140	150	160	POWER 1E-12W
.050	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
.063	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
.080	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
.100	83.3	91.9	93.4	93.6	93.2	94.1	95.4	98.0	99.4	104.3	108.8	120.6
.125	90.1	93.8	93.4	95.4	96.0	95.6	94.8	99.0	102.6	106.2	109.6	122.1
.160	94.6	96.7	94.8	95.1	93.7	94.1	95.6	97.9	103.1	108.0	111.6	123.3
.200	93.3	93.0	94.3	95.9	96.4	97.2	99.3	101.7	107.5	112.3	114.8	126.8
.250	94.1	94.4	95.4	97.2	97.8	99.2	100.9	104.3	109.8	114.7	117.1	129.0
.315	94.8	95.5	97.1	98.7	99.8	101.3	103.6	108.3	111.9	117.2	120.7	131.9
.400	98.9	99.0	99.4	100.9	101.9	103.6	106.2	111.2	116.2	120.3	123.2	134.9
.500	99.4	100.8	100.4	101.3	101.9	104.1	107.1	112.4	119.3	123.3	121.8	136.8
.630	101.8	101.7	102.1	103.9	104.1	106.1	109.1	116.0	121.0	124.4	123.2	138.3
.800	102.4	102.1	103.0	104.9	105.1	106.5	109.4	116.6	122.5	125.0	122.7	139.1
1.00	103.3	103.7	103.5	105.1	106.7	108.7	111.7	118.0	123.6	125.4	123.8	140.0
1.25	104.2	103.9	104.6	105.8	107.3	109.0	112.1	117.7	123.7	125.3	122.9	139.9
1.60	104.1	104.4	104.5	106.1	106.8	109.1	112.3	117.5	123.3	125.7	122.8	139.9
2.00	103.8	103.7	104.3	105.9	106.9	109.2	112.7	117.0	122.3	124.7	121.4	139.9
2.50	102.7	103.1	104.2	105.9	107.1	109.7	113.3	116.9	121.7	124.2	121.5	138.6
3.15	102.0	102.5	103.6	105.6	106.9	109.8	113.2	116.4	120.7	122.5	118.6	137.4
4.00	101.6	102.3	103.7	105.4	106.8	109.8	113.1	115.8	119.9	120.8	116.7	136.4
5.00	101.2	101.8	103.3	105.1	106.6	109.4	112.7	114.9	118.8	119.1	114.6	135.3
6.30	100.6	101.5	103.1	105.2	106.7	109.5	112.6	114.5	118.2	117.8	113.0	134.6
8.00	99.4	101.0	102.7	104.9	106.3	109.1	111.8	113.4	116.8	116.2	111.2	133.5
10.0	98.8	100.7	102.5	104.7	106.3	108.9	111.4	112.7	115.8	115.1	109.9	132.8
12.5	98.4	100.4	102.3	104.7	105.9	108.6	110.7	111.8	114.3	113.5	108.5	131.8
16.0	98.3	100.2	102.7	104.8	106.1	108.7	110.4	111.1	113.7	112.8	107.7	131.3
20.0	97.4	99.7	102.1	104.2	105.5	107.6	109.6	110.0	112.4	111.8	106.3	130.3
25.0	96.9	99.0	101.7	104.5	105.4	107.7	109.0	109.5	111.6	111.3	106.0	130.0
31.5	96.3	98.8	101.9	104.3	105.4	107.5	109.0	109.0	111.6	110.9	105.1	129.7
40.0	96.3	98.7	101.8	104.3	105.2	107.6	108.1	109.2	111.5	111.2	105.3	129.6
50.0	95.8	98.3	101.4	103.9	105.0	107.3	108.6	109.0	111.1	111.1	105.4	129.5
63.0	94.9	97.1	100.5	103.2	104.6	106.7	108.0	108.4	111.0	110.8	105.0	129.1
80.0	94.7	96.7	100.5	102.8	104.3	106.3	108.0	109.0	112.6	111.8	105.6	129.7
100.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
OSPL	114.6	115.4	116.7	118.6	119.8	122.1	124.8	128.3	133.1	135.2	133.3	OAPWL = 150.0

STAND X206 RIG ID 070530 TEST DATE 03/01/77 SCALE RATIO 12.0/1 RUN NUMBER 2008 CONDITION 8310

				PRIMARY	FAN		PRIMARY	FAN			PRIMARY	FAN		PRIMARY	FAN
TEMP	77.0(F)	25.0(C)	AREA SQFT	8.640	11.520	SQM	0.803	1.070	MASS FLOW LB/S		421.9	944.6	KG/S	191.4	428.5
PRES	29.80IN	1.01BAR	P.R.	2.60	2.49		2.00	2.49	THRUST,IDL LB	23483.3	54999.3		KN	104.459	244.648
WIND D			TEMP (R)	1470.7	1263.7	(K)	817.1	702.1	THRUST,MEA LB		0.0		KN	0.0	
WIND V	OMPH	0.0M/S	RHO LB/FT3	0.032	0.040	KG/M3	0.520	0.643	AREA (MOD) SQFT	0.080	0.080		SQM	0.006	0.007
REL H	70.0%		VEL FPS	1792.2	1874.8	M/S	546.3	571.4	W (MODEL) LB/S	2.9	6.6		KG/S	1.3	3.0

FAA DAY 1/3 OCTAVE BAND ENGINE JET NOISE DATA 150.0FT RADIUS (SCALED ENGINE)

BAND CENTER FREQ (KHZ)	MICROPHONE ANGLES IN DEGREES 60	70	80	90	100	110	120	130	140	150	160	POWER 1E-12W
.050	103.4	103.3	103.7	105.5	105.7	107.7	110.7	117.6	122.6	126.0	124.8	161.5
.063	104.0	103.7	104.6	106.5	106.7	108.1	111.0	118.2	124.1	126.6	124.3	162.2
.080	104.9	105.3	105.1	106.7	108.3	110.3	113.3	119.6	125.2	127.0	125.4	163.1
.100	105.8	105.5	106.2	107.4	108.9	110.6	113.7	119.3	125.3	126.9	124.5	163.0
.125	105.7	106.0	106.1	107.7	108.4	110.7	113.9	119.1	124.9	127.3	124.4	163.0
.160	105.3	105.2	105.6	107.4	108.4	110.7	114.2	118.5	123.8	126.2	122.9	162.1
.200	104.2	104.6	105.7	107.4	108.6	111.2	114.8	118.4	123.2	125.7	123.0	161.7
.250	103.5	104.0	105.1	107.1	108.4	111.3	114.7	117.9	122.2	124.0	120.1	160.3
.315	103.1	103.8	105.2	106.9	108.3	111.3	114.6	117.3	121.4	122.3	118.2	159.5
.400	102.7	103.3	104.8	106.6	108.1	110.9	114.2	116.4	120.3	120.6	116.1	158.4
.500	102.0	102.9	104.5	106.6	108.1	110.9	114.0	115.9	119.6	119.2	114.4	157.7
.630	100.8	102.4	104.1	106.3	107.7	110.5	113.2	114.8	118.2	117.6	112.6	156.5
.800	100.2	102.1	103.9	106.1	107.7	110.3	112.8	114.1	117.2	116.5	111.3	155.7
1.00	99.7	101.7	103.6	106.0	107.2	109.9	112.6	113.1	115.6	114.8	109.8	154.7
1.25	99.5	101.4	103.9	106.0	107.3	109.9	111.6	112.3	114.9	114.0	108.9	154.2
1.60	98.5	100.8	103.2	105.3	106.6	108.7	110.7	111.1	113.5	112.9	107.4	153.1
2.00	98.0	100.1	102.8	105.6	106.5	108.8	110.1	110.6	112.7	112.4	107.1	152.6
2.50	97.2	99.7	102.8	105.2	106.3	108.4	109.9	109.9	112.5	111.8	106.0	152.2
3.15	97.0	99.4	102.5	105.0	105.9	108.3	108.8	109.9	112.2	111.9	106.0	151.9
4.00	96.3	98.8	101.9	104.4	105.5	107.8	109.1	109.5	111.6	111.6	105.9	151.5
5.00	95.2	97.4	100.8	103.5	104.9	107.6	108.3	108.7	111.3	111.1	105.3	151.0
6.30	94.7	96.7	100.5	102.8	104.3	106.3	108.0	109.0	112.6	111.8	105.6	151.2
8.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

OAPWL = 172.6

OSPL	115.6	116.3	117.6	119.6	120.8	123.2	125.9	129.4	134.3	136.1	133.4
PNL	123.8	125.5	127.9	130.2	131.3	133.7	135.4	137.2	140.4	140.8	137.0

200. SIDELINE

PNL	119.8	122.3	125.1	127.5	128.4	130.4	131.4	131.9	133.5	131.8	124.4

370. SIDELINE

PNL	113.7	116.2	119.0	121.5	122.4	124.3	125.3	125.8	127.3	125.9	118.3

800. SIDELINE

PNL	105.3	107.9	110.7	113.1	114.1	115.9	117.0	117.3	119.3	117.8	110.1

2128. SIDELINE

PNL	93.6	95.7	98.0	100.5	101.4	103.2	105.0	106.0	108.1	106.5	98.6

20083F TAPE P7302 NASA VSCE (NAS3-20061) CONFIG. A 15.2049

STAND X206 RIG ID 070530 TEST DATE 03/01/77 SCALE RATIO 12.0/1 RUN NUMBER 20083 CONDITION 8311

					PRIMARY	FAN		PRIMARY	FAN			PRIMARY	FAN		PRIMARY	FAN
TEMP	70°F	21.1°C	AREA	SQFT	0.0	0.0	SQM	0.0	0.0	MASS FLOW	LB/S	0.0	0.0	KG/S	0.0	0.0
PRES	29.80IN	1.01BAR	P.R.		1.99	3.17		1.99	3.17	THRUST,IDL	LB	167.2	542.6	N	0.744	2.414
WIND D			TEMP	(R)	1476.7	1264.7	(K)	820.4	702.6	THRUST,MEA	LB		0.0	KN	0.0	
WIND V	0MPH	0.0M/S	RHO	LB/FT3	0.032	0.043	KG/M3	0.517	0.685	AREA (MOD)	SQFT	0.060	0.080	SQM	0.006	0.007
REL H	24 %		VEL	FPS	1788.3	2079.9	M/S	545.1	634.0	W (MODEL)	LB/S	3.0	8.4	KG/S	1.4	3.8

1/3 OCTAVE BAND MODEL JET NOISE DATA 15.0FT RADIUS THEORETICAL DAY SPL - (MODEL)

BAND CENTER FREQ (KHZ)	MICROPHONE ANGLES IN DEGREES 60	70	80	90	100	110	120	130	140	150	160	POWER 1E-12W
.050	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
.063	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
.080	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
.100	90.7	94.7	96.0	95.9	95.5	96.5	97.8	100.4	101.9	106.8	111.6	0.0
.125	92.9	96.5	96.2	97.9	98.6	98.4	97.6	101.3	104.7	108.4	112.1	0.0
.160	97.1	99.3	97.3	97.7	96.7	96.9	98.1	100.1	105.4	110.6	114.1	123.1
.200	96.2	96.0	97.3	98.5	99.1	99.8	101.9	104.1	109.6	114.7	117.7	124.5
.250	97.1	97.2	97.9	99.5	100.4	101.7	103.3	106.4	112.0	117.0	119.7	125.8
.315	97.0	98.2	99.4	101.3	102.6	103.8	106.0	110.4	114.4	119.9	123.6	126.3
.400	101.5	101.7	101.8	103.0	104.1	105.8	108.8	113.1	118.5	122.7	125.8	131.4
.500	102.0	103.4	102.2	103.3	104.3	106.3	109.2	114.6	121.6	125.6	124.6	134.5
.630	103.9	104.3	104.4	105.8	106.2	108.0	111.2	117.7	123.3	126.6	125.6	137.3
.800	104.8	104.4	105.3	106.8	107.5	108.3	111.6	118.4	124.4	127.3	125.2	139.1
1.00	105.5	106.0	105.6	106.8	106.6	110.6	113.6	119.5	125.3	127.9	126.3	140.5
1.25	106.4	105.9	106.5	107.5	109.3	110.9	114.1	119.4	125.2	127.8	125.5	141.2
1.60	105.4	106.1	106.4	107.7	108.8	110.8	114.3	119.6	124.9	128.1	125.0	141.3
2.00	105.4	105.5	106.4	107.7	109.2	111.5	115.1	119.1	125.8	128.4	124.5	141.4
2.50	106.5	105.7	106.2	107.7	109.0	111.7	115.5	119.1	124.7	126.2	122.0	142.2
3.15	107.3	107.7	107.3	107.8	109.3	111.9	115.8	119.0	124.6	124.4	119.0	140.9
4.00	106.1	107.6	109.3	109.3	109.6	112.2	116.1	119.2	124.4	122.4	117.2	140.2
5.00	105.8	106.1	107.9	109.8	110.2	112.2	115.8	118.9	123.0	120.8	115.2	139.7
6.30	106.6	106.8	107.5	108.9	110.9	112.7	115.9	119.0	121.8	119.6	113.6	138.7
8.00	105.6	106.9	108.2	109.0	110.1	112.6	115.3	118.5	120.4	118.0	111.8	138.0
10.0	105.6	107.0	108.2	109.5	110.2	112.6	115.1	117.7	119.7	117.0	110.6	137.2
12.5	105.6	107.1	108.4	109.5	110.4	112.4	114.7	116.9	118.4	115.6	109.1	136.6
16.0	105.6	107.0	109.3	110.1	110.8	112.6	114.5	116.3	117.8	114.9	108.4	135.9
20.0	104.6	106.7	109.0	110.0	110.5	111.6	113.7	115.2	116.8	113.9	107.0	135.6
25.0	104.3	106.2	108.8	110.5	110.7	112.0	113.3	114.8	115.9	113.3	106.7	134.8
31.5	103.7	106.1	109.1	110.5	111.0	111.9	113.3	114.5	115.9	112.9	106.1	134.5
40.0	103.7	106.2	109.3	110.9	111.2	112.4	112.8	114.9	115.8	113.2	106.4	134.4
50.0	103.6	105.9	108.9	110.7	111.1	112.4	113.4	114.8	115.9	113.4	106.4	134.6
63.0	102.6	105.0	108.4	110.3	111.2	112.2	113.2	114.7	115.5	113.1	106.0	134.6
80.0	102.4	104.8	108.9	110.2	111.5	112.4	114.0	115.6	117.1	114.1	106.8	134.4
100.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	135.2
												0.0
OSPL	119.0	120.0	121.6	122.8	123.7	125.4	128.0	131.4	136.0	137.6	135.6	OAPWL = 152.8

STAND X206 RIG ID 070530 TEST DATE 03/01/77 SCALE RATIO 12.0/1 RUN NUMBER 2008 CONDITION 8311

				PRIMARY	FAN		PRIMARY	FAN			PRIMARY	FAN		PRIMARY	FAN
TEMP	77.0(F)	25.0(C)	AREA SQFT	8.640	11.520	SQM	0.803	1.070	MASS FLOW	LB/S	433.4	1209.6	KG/S	196.6	548.7
PRES	29.80IN	1.015AR	P.R.	1.99	3.17		1.99	3.17	THRUST,IDL	LB	24072.5	78133.6	KN	107.079	347.554
WIND D			TEMP (R)	1476.7	1264.7	(K)	820.4	702.6	THRUST,MEA	LB		0.0	KN	0.0	
WIND V	0MPH	0.0M/S	RHO LB/FT3	0.032	0.043	KG/M3	0.517	0.665	AREA (MOD)	SQFT	0.060	0.060	SQM	0.006	0.007
REL H	70.0%		VEL FPS	1788.3	2079.9	M/S	545.1	634.0	W (MODEL)	LB/S	3.0	8.4	KG/S	1.4	3.8

FAA DAY

1/3 OCTAVE BAND ENGINE JET NOISE DATA 150.0FT RADIUS (SCALED ENGINE)

BAND CENTER FREQ (KHZ)	MICROPHONE ANGLES IN DEGREES 60	70	80	90	100	110	120	130	140	150	160	POWER 1E-12W
.050	105.5	105.9	106.0	107.4	107.8	109.6	112.8	119.3	124.9	128.2	127.2	
.063	106.4	106.0	106.9	108.4	109.1	109.9	113.2	120.0	126.0	128.9	126.8	183.7
.080	107.1	107.6	107.2	108.4	110.2	112.2	115.2	121.1	126.9	129.5	127.9	184.4
.100	108.0	107.5	108.1	109.1	110.9	112.5	115.7	121.0	126.8	129.4	127.1	185.2
.125	107.6	107.7	108.0	109.3	110.4	112.4	115.9	120.6	126.5	129.7	126.6	185.1
.160	106.9	107.0	107.9	109.2	110.7	113.0	116.6	120.6	127.3	129.9	126.0	185.0
.200	108.0	107.2	107.7	109.2	110.5	113.2	117.0	120.6	126.2	127.7	123.5	185.4
.250	109.0	109.2	109.0	109.3	110.8	113.4	117.3	120.5	126.1	125.9	120.5	184.6
.315	107.6	109.1	110.8	110.8	111.1	113.7	117.6	120.7	125.9	123.9	118.7	183.3
.400	107.3	107.6	109.4	111.3	111.7	113.7	117.3	120.4	124.5	122.3	116.7	182.8
.500	108.0	108.2	108.9	110.3	112.3	114.1	117.3	120.4	123.2	121.0	115.0	181.7
.630	107.0	108.3	109.6	110.4	111.5	114.0	116.7	119.9	121.8	119.4	113.2	181.1
.800	107.0	108.4	109.6	110.9	111.6	114.0	116.5	119.1	121.1	118.4	112.0	180.2
1.00	106.9	108.4	109.7	110.8	111.7	113.7	116.0	118.2	119.7	116.9	110.4	179.6
1.25	106.8	108.2	110.5	111.3	112.0	113.8	115.7	117.5	119.0	116.1	109.6	178.8
1.60	105.7	107.8	110.1	111.1	111.6	112.7	114.8	116.3	117.9	115.0	108.1	178.5
2.00	105.4	107.3	109.9	111.6	111.8	113.1	114.4	115.9	117.0	114.4	107.8	177.5
2.50	104.6	107.0	110.0	111.4	111.9	112.8	114.2	115.4	116.8	113.8	107.0	177.2
3.15	104.4	106.9	110.0	111.6	111.9	113.1	113.5	115.6	116.5	113.9	107.1	176.9
4.00	104.1	106.4	109.3	111.2	111.6	112.9	113.9	115.3	116.4	113.9	106.9	176.8
5.00	102.9	105.3	108.7	110.6	111.5	112.5	113.5	115.0	115.8	113.4	106.3	176.7
6.30	102.4	104.8	108.9	110.2	111.5	112.4	114.0	115.6	117.1	114.1	106.8	176.3
8.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	176.7
10.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
												0.0

OAPWL = 175.4

OSPL	120.0	120.9	122.5	123.7	124.6	126.4	129.1	132.5	137.1	138.5	135.5
PNL	130.1	131.9	134.3	135.7	136.3	137.8	139.5	141.9	144.3	143.0	138.2

200. SIDELINE

PNL	126.1	128.6	131.4	133.0	133.5	134.5	135.4	136.6	137.4	134.0	125.6

370. SIDELINE

PNL	120.0	122.5	125.3	126.9	127.4	128.4	129.2	130.5	131.1	128.0	119.5

600. SIDELINE

PNL	111.4	114.0	116.8	118.4	118.9	119.8	120.8	121.7	123.1	120.0	111.3

2128. SIDELINE

PNL	98.9	101.1	103.7	105.3	105.8	106.7	108.3	109.8	111.6	108.7	100.0

STAND X206 RIG ID 070530 TEST DATE 03/02/77 SCALE RATIO 12.0/1 RUN NUMBER 20083 CONDITION 8312

				PRIMARY	FAN		PRIMARY	FAN			PRIMARY	FAN		PRIMARY	FAN
TEMP	72°F	22.2°C	AREA	SQFT	0.0	0.0	SQM	0.0	0.0	MASS FLOW LB/S	0.0	0.0	KG/S	0.0	0.0
PRES	30.07IN	1.02BAR	P.R.		1.98	1.78		1.98	1.78	THRUST,IDL LB	168.2	205.8	KN	0.750	0.915
WIND D			TEMP	(R)	1454.7	1952.7	(K)	808.2	1084.8	THRUST,MEA LB		0.0	KN	0.0	
WIND V	0MPH	0.0M/S	RHO	LB/FT3	0.033	0.024	KG/M3	0.524	0.377	AREA (MOD) SQFT	0.060	0.080	SQM	0.006	0.007
REL H	22 %		VEL	FPS	1767.7	1898.5	M/S	538.8	578.7	W (MODEL) LB/S	3.1	3.5	KG/S	1.4	1.6

1/3 OCTAVE BAND MODEL JET NOISE DATA 15.0FT RADIUS THEORETICAL DAY SPL - (MODEL)

BAND CENTER FREQ (KHZ)	MICROPHONE ANGLES IN DEGREES 60	70	80	90	100	110	120	130	140	150	160	POWER 1E-12W
.050	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
.063	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
.080	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
.100	86.4	89.8	91.8	92.2	91.5	92.6	94.3	97.0	98.5	103.0	106.9	119.1
.125	87.8	91.8	92.3	94.2	95.3	94.6	94.2	98.7	102.1	105.5	108.1	121.2
.160	93.4	95.3	93.2	93.4	92.3	92.9	93.9	96.6	102.1	107.2	110.5	122.2
.200	91.9	91.0	91.6	93.4	94.5	95.3	97.2	99.4	106.4	111.4	113.4	125.5
.250	92.6	92.5	93.3	95.6	96.3	97.3	99.1	102.9	108.7	113.7	115.2	127.7
.315	94.0	94.1	95.7	97.4	98.3	99.2	102.0	106.6	110.8	116.3	119.0	130.6
.400	97.6	97.3	97.6	99.0	100.3	102.2	104.8	109.9	114.9	119.2	121.5	133.6
.500	97.9	98.8	98.5	99.8	100.3	102.3	105.5	111.3	117.6	121.6	119.5	135.0
.630	100.5	100.0	100.4	101.9	102.3	104.0	107.6	113.7	119.3	122.5	120.6	136.4
.800	100.6	101.1	101.3	102.9	103.4	104.9	108.0	112.4	120.5	123.1	119.9	136.9
1.00	102.1	102.1	101.6	103.6	105.1	107.0	110.0	110.8	121.7	123.4	121.1	137.6
1.25	102.1	102.5	102.6	103.9	105.5	107.4	110.5	113.5	121.8	123.1	119.7	137.6
1.60	102.4	102.5	103.0	104.4	105.6	107.5	110.7	114.6	121.4	123.2	119.2	137.6
2.00	101.9	102.1	102.8	104.5	105.7	107.8	111.1	114.5	120.4	122.1	117.5	136.6
2.50	101.5	102.0	102.8	104.6	106.3	108.4	111.6	114.5	119.4	120.9	117.2	135.9
3.15	100.9	101.6	102.8	104.6	106.3	108.5	111.5	113.4	118.0	119.2	115.1	134.7
4.00	100.2	101.3	102.7	104.7	106.4	108.8	111.5	113.0	116.9	117.4	113.4	133.8
5.00	99.7	100.6	102.0	104.1	106.1	108.3	110.6	112.0	115.1	115.6	111.2	132.5
6.30	99.2	100.2	102.0	104.2	105.8	108.4	110.5	111.5	114.3	114.0	109.4	131.7
8.00	97.9	99.5	101.5	103.7	105.5	106.0	109.6	109.9	112.7	112.4	107.3	130.5
10.0	97.0	99.0	100.9	103.3	105.2	107.5	108.9	108.9	111.4	111.0	105.6	129.6
12.5	96.3	98.3	100.5	102.9	104.7	107.1	108.1	108.0	109.7	109.5	104.1	128.6
16.0	96.1	98.1	100.7	103.1	104.8	106.8	107.5	107.3	109.0	108.7	103.1	128.1
20.0	94.9	97.3	99.6	102.2	103.8	105.6	106.5	105.7	107.4	107.1	101.1	126.8
25.0	94.2	96.6	99.4	102.0	103.4	105.7	105.5	105.1	106.5	106.1	100.5	126.3
31.5	93.6	96.2	99.3	101.5	103.0	104.7	105.2	104.2	105.9	105.5	99.2	125.6
40.0	93.4	96.0	99.1	101.6	102.6	104.9	104.3	103.7	105.6	105.4	99.1	125.4
50.0	93.0	95.4	98.0	100.7	102.0	104.3	104.2	104.7	104.9	105.2	99.0	125.1
63.0	92.1	94.5	97.0	99.8	101.5	103.2	103.3	103.1	104.4	104.8	98.5	124.2
80.0	91.8	94.0	97.0	99.3	101.2	102.8	103.1	103.3	105.4	105.7	99.0	124.4
100.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
OSPL	113.0	113.8	114.9	116.9	118.4	120.4	122.6	125.0	130.8	132.8	130.5	OAPWL = 147.6

STAND X206 RIG ID 070530 TEST DATE 03/02/77 SCALE RATIO 12.0/1 RUN NUMBER 2008 CONDITION 8312

			PRIMARY	FAN		PRIMARY	FAN			PRIMARY	FAN		PRIMARY	FAN
TEMP	77.0(F)	25.0(C)	AREA SQFT	8.640	11.520	SQM	0.803	1.070	MASS FLOW LB/S	442.1	502.6	KG/S	200.5	228.0
PRES	30.07IN	1.028AR	P.R.	1.98	1.78		1.98	1.78	THRUST,IDL LB	24268.6	29631.0	KN	107.951	131.805
WIND D			TEMP (R)	1454.7	1952.7	(K)	808.2	1084.8	THRUST,MEA LB		0.0	KN	0.0	
WIND V	0MPH	0.0M/S	RHO LB/FT3	0.053	0.024	KG/M3	0.524	0.377	AREA (MOD) SQFT	0.060	0.080	SQM	0.006	0.007
REL H	70.0%		VEL FPS	1767.7	1898.5	M/S	538.8	578.7	W (MODEL) LB/S	3.1	3.5	KG/S	1.4	1.6

FAA DAY 1/3 OCTAVE BAND ENGINE JET NOISE DATA 150.0FT RADIUS (SCALED ENGINE)

BAND CENTER FREQ (KHZ)	MICROPHONE ANGLES IN DEGREES 60	70	80	90	100	110	120	130	140	150	160	POWER 1E-12W
.050	102.1	101.6	102.0	103.5	103.9	105.6	109.2	115.3	120.9	124.1	122.2	159.5
.063	102.2	102.7	102.9	104.5	105.0	106.5	109.6	114.0	122.1	124.7	121.5	160.0
.080	103.7	103.7	103.2	105.2	106.7	108.6	111.6	112.4	123.3	125.0	122.7	160.8
.100	103.7	104.1	104.2	105.5	107.1	109.0	112.1	115.1	123.4	124.7	121.3	160.7
.125	104.0	104.1	104.6	106.0	107.2	109.1	112.3	116.2	123.0	124.8	120.8	160.7
.160	103.4	103.6	104.3	106.0	107.2	109.3	112.6	116.0	121.9	123.6	119.0	159.7
.200	103.0	103.5	104.3	106.1	107.8	109.9	113.1	116.0	120.9	122.4	118.7	159.6
.250	102.4	103.1	104.3	106.1	107.8	110.0	113.6	114.9	119.5	120.7	116.6	157.8
.315	101.7	102.8	104.2	106.2	107.9	110.3	113.0	114.5	118.4	118.9	114.9	156.9
.400	101.2	102.1	103.5	105.6	107.6	109.8	112.1	113.5	116.6	117.1	112.7	155.5
.500	100.6	101.6	103.4	105.6	107.2	109.8	111.9	112.9	115.7	115.4	110.8	154.7
.630	99.3	100.9	102.9	105.1	106.9	109.4	111.0	111.3	114.1	113.8	108.7	153.5
.800	98.4	100.4	102.3	104.7	106.6	108.9	110.3	110.3	112.8	112.4	107.0	152.5
1.00	97.6	99.6	101.8	104.2	106.0	108.4	109.4	109.3	111.0	110.8	105.4	151.5
1.25	97.3	99.3	101.9	104.3	106.0	108.0	108.7	108.5	110.2	109.9	104.3	151.0
1.60	96.0	98.4	100.7	103.3	104.9	106.7	107.6	106.8	108.5	108.2	102.2	149.6
2.00	95.3	97.7	100.5	103.1	104.5	106.8	106.6	106.2	107.6	107.2	101.6	148.9
2.50	94.5	97.1	100.2	102.4	103.9	105.6	106.1	105.1	106.8	106.4	100.1	148.1
3.15	94.1	96.7	99.8	102.3	103.3	105.6	105.0	104.4	106.3	106.1	99.8	147.7
4.00	93.5	95.9	98.5	101.2	102.5	104.8	104.7	105.2	105.4	105.7	99.5	147.1
5.00	92.4	94.8	97.3	100.1	101.8	103.5	103.6	103.4	104.7	105.1	98.8	146.1
6.30	91.8	94.0	97.0	99.3	101.2	102.8	103.1	103.3	105.4	105.7	99.0	145.9
8.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

DAPWL = 170.0

OSPL	114.0	114.7	115.9	117.9	119.4	121.6	123.8	126.0	131.9	133.5	130.1
PNL	121.5	123.4	125.6	127.9	129.3	131.4	132.3	133.0	136.2	137.1	132.7

200. SIDELINE

PNL	117.5	120.1	122.8	125.2	126.5	128.2	128.3	127.8	129.6	128.1	120.2

370. SIDELINE

PNL	111.5	114.1	116.8	119.2	120.5	122.1	122.3	121.6	123.8	122.2	114.1

800. SIDELINE

PNL	103.2	105.8	108.5	110.9	112.2	113.7	114.0	113.8	116.0	114.3	106.0

2128. SIDELINE

PNL	91.8	94.0	96.2	98.6	100.1	101.6	102.6	102.7	105.1	103.3	94.7

20083F TAPE P7308 NASA VSCE (NAS3-20061) CONFIG. A 15.2049

STAND X206 RIG ID 070530 TEST DATE 03/02/77 SCALE RATIO 12.0/1 RUN NUMBER 20083 CONDITION 8313

				PRIMARY	FAN		PRIMARY	FAN			PRIMARY	FAN		PRIMARY	FAN
TEMP	72°F	22.2°C	AREA SQFT	0.0	0.0	SQM	0.0	0.0	MASS FLOW	LB/S	0.0	0.0	KG/S	0.0	0.0
PRES	30.07IN	1.02BAR	P.R.		2.00	2.48		2.00	2.48	THRUST,IDL	LB	165.8	360.1	KN	0.738	1.602
WIND D			TEMP (R)	1444.7	1945.7	(K)	802.6	1080.9	THRUST,MEA	Lb		0.0	KN	0.0	
WIND V	0MPH	0.0M/S	RHO LB/FT3	0.033	0.026	KG/M3	0.529	0.410	AREA (MOD)	SQFT	0.060	0.080	SQM	0.006	0.007
REL H	22 %		VEL FPS	1773.9	2333.2	M/S	540.7	711.2	W (MODEL)	LB/S	3.0	5.0	KG/S	1.4	2.3

1/3 OCTAVE BAND MODEL JET NOISE DATA 15.0FT RADIUS THEORETICAL DAY SPL - (MODEL)

BAND CENTER FREQ (KHZ)	MICROPHONE ANGLES IN DEGREES 60	70	80	90	100	110	120	130	140	150	160	POWER 1E-12W
.050	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
.063	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
.080	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
.100	90.2	93.4	95.3	95.5	95.1	95.9	97.5	99.8	101.4	106.3	110.5	0.0
.125	91.4	95.1	95.6	97.7	98.6	97.7	97.3	101.3	104.9	108.6	111.7	122.5
.160	97.0	98.6	96.3	96.6	95.9	96.3	97.4	99.5	105.0	110.2	113.8	124.4
.200	95.5	94.4	95.2	97.0	97.8	98.7	101.1	102.9	109.8	115.0	117.2	125.3
.250	96.1	95.8	96.7	98.8	99.4	100.8	102.4	106.0	111.9	116.8	118.9	126.1
.315	97.3	97.3	98.9	100.7	101.7	102.9	105.3	109.8	113.9	119.6	122.6	131.0
.400	100.9	100.5	100.5	102.1	103.3	105.5	108.3	113.1	118.4	122.6	124.9	133.9
.500	101.4	101.8	101.6	102.8	103.4	105.5	108.8	114.6	121.0	125.2	125.0	137.0
.630	103.6	102.9	103.4	105.0	105.4	107.3	110.9	116.8	122.7	125.9	124.1	136.5
.800	104.0	104.0	104.4	106.0	106.6	108.1	111.4	115.4	123.8	126.6	123.7	139.7
1.00	105.5	105.2	104.8	106.6	106.1	110.2	113.5	113.7	124.6	126.9	124.5	140.3
1.25	105.6	105.5	105.7	107.0	106.6	110.7	114.1	116.4	124.8	126.7	123.3	140.8
1.60	105.6	105.3	105.7	107.6	108.6	110.9	114.3	117.7	124.8	127.2	122.8	140.9
2.00	105.0	105.0	105.8	107.6	108.9	111.3	115.1	117.8	124.8	126.1	120.5	141.2
2.50	104.5	105.1	106.1	107.9	109.4	112.3	115.9	118.6	124.9	124.7	119.3	140.6
3.15	104.3	105.1	106.3	108.2	109.8	112.8	116.1	118.4	124.7	122.7	116.7	140.3
4.00	104.4	105.3	106.5	108.4	110.3	113.5	116.4	119.2	124.2	120.7	114.8	139.7
5.00	104.4	105.3	106.3	108.4	110.2	113.3	116.1	119.7	122.2	118.9	112.9	139.3
6.30	104.3	105.1	106.6	108.8	110.5	113.9	116.2	120.3	120.9	117.7	111.5	138.2
8.00	103.3	105.1	106.6	108.8	110.6	113.7	115.8	119.0	119.5	116.2	109.7	137.8
10.0	102.8	104.9	106.4	109.0	110.6	113.5	115.4	117.8	118.6	115.2	108.5	136.9
12.5	102.5	104.6	106.5	109.1	110.5	113.3	114.8	116.9	117.4	113.9	107.3	136.2
16.0	102.6	104.7	106.9	109.5	110.9	113.2	114.8	116.4	116.8	113.2	106.7	135.4
20.0	101.7	104.1	106.4	109.0	110.5	112.5	113.9	115.3	115.7	112.0	105.5	135.2
25.0	101.5	103.8	106.3	109.2	110.4	112.8	113.2	114.9	114.9	111.6	105.3	134.3
31.5	101.1	103.6	106.4	109.0	110.4	112.2	113.5	114.5	114.5	111.2	104.6	134.0
40.0	100.9	103.6	106.5	109.1	110.3	112.8	112.8	114.3	114.6	111.6	104.9	133.7
50.0	100.5	103.2	105.6	108.8	110.0	112.5	113.4	115.9	114.6	111.4	104.9	133.7
63.0	99.4	102.2	105.1	108.1	110.0	112.2	113.1	114.8	114.5	111.1	104.7	134.1
80.0	99.4	101.6	104.9	107.9	110.1	112.5	113.8	115.9	116.0	112.2	104.9	133.6
100.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	134.3
												0.0
OSPL	117.3	118.2	119.6	121.9	123.4	125.9	128.1	130.9	135.5	136.4	133.8	OAPWL = 152.1

20083F TAPE P7308 NASA VSCE (NAS3-20061) CONFIG. A

15.2049

STAND X206 RIG ID 070530 TEST DATE 03/02/77 SCALE RATIO 12.0/1 RUN NUMBER 2008 CONDITION 8313

				PRIMARY	FAN		PRIMARY	FAN			PRIMARY	FAN		PRIMARY	FAN
TEMP	77.0(F)	25.0(C)	AREA SQFT	8.640	11.520	SQM	0.803	1.070	MASS FLOW	LB/S	433.4	715.7	KG/S	196.6	324.6
PRES	30.07IN	1.02BAR	P.R.	2.00	2.48		2.00	2.48	THRUST,IDL	LB	23877.9	51858.6	KN	106.214	230.678
WIND D			TEMP (R)	1444.7	1945.7	(K)	802.6	1080.9	THRUST,MEA	LB		0.0	KN	0.0	
WIND V	0MPH	0.0M/S	RHO LB/FT3	0.033	0.026	KG/M3	0.529	0.410	AREA (MOD)	SQFT	0.060	0.080	SQM	0.006	0.007
REL H	70.0%		VEL FPS	1773.9	2333.2	M/S	540.7	711.2	W (MODEL)	LB/S	3.0	5.0	KG/S	1.4	2.3

FAA DAY

SAND

1/3 OCTAVE BAND ENGINE JET NOISE DATA 150.0FT RADIUS (SCALED ENGINE)

CENTER FREQ (KHZ)	MICROPHONE ANGLES IN DEGREES 60	70	80	90	100	110	120	130	140	150	160	POWER DB-12K
.050	103.2	104.5	105.0	106.6	107.0	108.9	112.5	118.4	124.3	127.5	125.7	
.063	105.6	105.6	106.0	107.6	108.2	109.7	113.0	117.0	125.4	128.2	125.3	162.9
.080	107.1	106.8	106.4	108.2	109.7	111.8	115.1	115.3	126.2	128.5	126.1	163.5
.100	107.2	107.1	107.3	108.6	110.2	112.3	115.7	118.0	126.4	128.3	124.9	164.0
.125	107.2	106.9	107.3	109.2	110.2	112.5	115.9	119.3	126.4	128.8	124.4	164.0
.160	106.5	106.5	107.3	109.1	110.4	112.8	116.6	119.3	126.3	127.6	122.0	164.3
.200	106.0	106.6	107.6	109.4	110.9	113.8	117.4	120.1	126.4	126.2	120.8	163.7
.250	105.8	106.6	107.8	109.7	111.3	114.3	117.6	119.9	126.2	124.2	118.2	163.4
.315	105.9	106.8	108.0	109.9	111.8	115.0	117.9	120.7	125.7	122.2	116.3	162.8
.400	105.9	106.8	107.8	109.9	111.7	114.8	117.6	121.2	123.7	120.4	114.4	162.3
.500	105.7	106.5	108.0	110.2	111.9	115.3	117.6	121.7	122.3	119.1	112.9	161.3
.630	104.7	106.5	108.0	110.2	112.0	115.1	117.2	120.4	120.9	117.6	111.1	160.9
.800	104.2	106.3	107.8	110.4	112.0	114.9	116.8	119.2	120.0	116.6	109.9	159.9
1.00	103.8	105.9	107.8	110.4	111.8	114.6	116.1	118.2	118.7	115.2	108.6	159.1
1.25	103.8	105.9	108.1	110.7	112.1	114.4	116.0	117.6	118.0	114.4	107.9	158.3
1.60	102.8	105.2	107.5	110.1	111.6	113.6	115.0	116.4	116.8	113.1	106.6	156.6
2.00	102.6	104.9	107.4	110.3	111.5	113.9	114.3	116.0	116.0	112.7	106.4	157.6
2.50	102.0	104.5	107.3	109.9	111.3	113.1	114.4	115.4	115.4	112.1	105.5	156.6
3.15	101.6	104.3	107.2	109.8	111.0	113.5	113.5	115.0	115.3	112.3	105.6	156.2
4.00	101.0	103.7	106.1	109.3	110.5	113.0	113.9	116.4	115.1	111.9	105.4	156.0
5.00	99.7	102.5	105.4	108.4	110.3	112.5	113.4	115.1	114.8	111.4	105.0	156.1
6.30	99.4	101.6	104.9	107.9	110.1	112.5	113.8	115.9	116.0	112.2	104.9	155.5
8.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	155.9
10.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.0
												0.0

OSPL	118.2	119.2	120.6	122.9	124.4	127.0	129.3	132.0	136.6	137.2	133.4	OAPWL = 174.6
PNL	127.7	129.6	131.9	134.4	135.8	138.3	139.6	142.0	143.4	141.4	136.0	

200. SIDELINE

PNL	123.6	126.3	129.0	131.7	132.9	135.0	135.5	136.7	136.5	132.4	123.4

370. SIDELINE

PNL	117.5	120.3	123.0	125.6	126.8	128.9	129.4	130.3	130.5	126.4	117.4

800. SIDELINE

PNL	109.1	111.9	114.5	117.2	118.4	120.3	121.0	121.5	122.5	118.4	109.1

2128. SIDELINE

PNL	96.9	99.1	101.6	104.3	105.5	107.4	108.5	109.7	111.1	107.1	97.8

20083F TAPE P7308 NASA VSCE (NAS3-20061) CONFIG. A 15.2049

STAND X206 RIG ID 670530 TEST DATE 03/02/77 SCALE RATIO 12.0/1 RUN NUMBER 20083 CONDITION 8314

					PRIMARY	FAN		PRIMARY	FAN
TEMP	71°F	21.7°C	AREA	SQFT	0.0	0.0	SQM	0.0	0.0
PRES	30.07IN	1.028AR	P.R.		2.00	4.07		2.00	4.07
WIND D			TEMP	(R)	1443.7	1945.7	(K)	802.1	1080.9
WIND V	0MPH	0.0M/S	RHO	LB/FT3	0.033	0.029	KG/M3	0.530	0.462
REL H	22 90		VEL	FPS	1776.2	2819.4	M/S	541.4	859.3

		PRIMARY	FAN		PRIMARY	FAN
MASS FLOW	LB/S	0.0	0.0	KG/S	0.0	0.0
THRUST,IDL	LB	165.5	733.7	KN	0.736	3.264
THRUST,MEA	LB		0.0	KN	0.0	
AREA (MOD)	SQFT	0.060	0.080	SQM	0.006	0.007
W (MODEL)	LB/S	3.0	8.4	KG/S	1.4	3.8

1/3 OCTAVE BAND MODEL JET NOISE DATA 15.0FT RADIUS THEORETICAL DAY SPL - (MODEL)

BAND CENTER FREQ (KHZ)	MICROPHONE ANGLES IN DEGREES 60	70	80	90	100	110	120	130	140	150	160	POWER 1E-12W
.050	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
.063	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
.080	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
.100	96.1	99.4	101.1	100.5	100.3	101.6	102.7	104.9	106.7	111.8	116.7	0.0
.125	98.0	101.4	101.5	102.9	103.6	102.7	102.1	105.9	109.6	113.5	117.6	128.1
.160	103.2	104.5	102.2	102.7	101.9	102.2	103.0	104.4	109.7	111.2	115.7	129.6
.200	101.5	100.0	101.3	102.7	103.3	104.3	106.2	108.0	114.5	120.0	122.7	129.9
.250	102.3	102.1	102.4	104.0	104.9	106.2	107.5	111.1	116.6	121.9	124.5	134.3
.315	101.8	102.0	104.0	105.7	106.7	108.0	110.0	114.7	118.8	124.9	128.1	136.2
.400	106.1	105.6	105.4	106.6	107.9	110.3	113.0	117.7	123.1	127.4	130.2	139.2
.500	105.8	106.5	105.9	106.9	107.7	109.9	113.1	119.5	125.9	129.9	128.2	141.9
.630	106.8	107.1	107.9	109.1	109.8	111.6	115.6	122.0	127.6	130.6	128.9	143.3
.800	107.6	107.7	108.7	110.1	111.0	112.3	116.0	120.6	128.5	131.0	128.3	144.5
1.00	108.3	108.4	108.8	110.3	112.1	114.2	118.1	118.6	129.6	131.3	128.4	144.9
1.25	107.9	108.4	109.1	110.3	112.3	114.6	118.8	121.5	130.0	130.6	125.8	145.4
1.60	107.4	107.9	109.2	110.9	112.4	114.9	119.6	123.2	130.3	129.8	123.8	145.3
2.00	108.4	108.3	109.6	111.2	112.9	115.8	120.6	124.0	130.3	127.3	120.9	145.3
2.50	109.5	109.7	110.6	112.1	113.9	117.2	121.7	125.6	129.9	125.5	120.3	144.7
3.15	109.6	110.0	111.7	113.0	114.7	118.1	122.4	126.1	128.1	124.1	118.2	144.7
4.00	109.6	110.2	111.8	114.1	115.6	119.0	123.0	127.0	126.4	122.4	116.7	144.0
5.00	109.8	110.0	111.5	113.8	115.9	119.1	122.8	126.4	125.0	120.8	115.0	143.8
6.30	110.4	110.3	112.0	114.3	116.2	119.6	122.9	125.2	124.0	119.7	113.7	143.2
8.00	110.4	110.9	112.3	114.5	116.2	119.5	122.6	123.4	122.5	118.2	111.9	142.5
10.0	110.6	111.4	112.7	114.8	116.4	119.0	121.8	122.5	121.9	117.1	110.9	141.6
12.5	110.5	111.5	113.0	115.2	116.4	118.7	120.9	121.9	120.5	116.2	109.9	141.1
16.0	110.7	111.7	113.6	115.7	116.8	118.7	120.5	121.2	120.3	115.7	109.5	140.4
20.0	110.1	111.2	113.2	115.2	116.2	117.7	119.6	120.2	118.9	114.7	108.2	140.2
25.0	110.0	111.3	113.4	115.5	116.1	116.6	119.0	119.7	118.3	114.3	108.3	139.3
31.5	109.9	111.4	113.6	115.4	116.2	117.3	119.2	119.1	117.9	113.9	107.5	139.2
40.0	110.1	111.6	114.0	115.8	116.2	117.8	118.6	118.9	118.0	114.3	107.8	138.9
50.0	110.0	111.5	113.4	115.4	116.0	117.7	119.2	120.4	117.6	114.1	107.8	138.9
63.0	109.0	110.7	112.9	115.0	116.1	117.5	119.0	119.0	117.2	113.8	107.4	139.2
80.0	109.2	110.6	113.4	115.4	116.8	116.1	119.8	120.0	118.3	114.7	107.8	138.7
100.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	139.4
												0.0
OSPL	123.3	124.0	125.7	127.6	128.8	121.1	134.1	136.6	139.9	140.0	138.0	OAPWL = 155.7

5.1A-27

STAND X206 RIG ID 070530 TEST DATE 03/02/77 SCALE RATIO 12.0/1 RUN NUMBER 2006 CONDITION 8314

			PRIMARY	FAN		PRIMARY	FAN			PRIMARY	FAN		PRIMARY	FAN
TEMP 77.0(F)	25.0(C)	AREA SQFT	8.640	11.520	SQM	0.803	1.070	MASS FLOW	LB/S	432.0	1206.7	KG/S	196.0	547.4
PRES 30.07IN	1.02BAR	P.R.	2.00	4.07		2.00	4.07	THRUST,IDL	LB	23829.3	105658.2	KN	105.997	469.984
WIND D		TEMP (R)	1443.7	1945.7	(K)	802.1	1080.9	THRUST,MEA	LB		0.0	KN	0.0	
WIND V 0MPH	0.0M/S	RHO LB/FT3	0.033	0.029	KG/M3	0.530	0.462	AREA (MOD)	SQFT	0.060	0.080	SQM	0.006	0.007
REL H 70.0%		VEL FPS	1776.2	2619.4	M/S	541.4	859.3	W (MODEL)	LB/S	3.0	6.4	KG/S	1.4	3.1

FAA DAY

1/3 OCTAVE BAND ENGINE JET NOISE DATA 150.0FT RADIUS (SCALED ENGINE)

BAND CENTER FREQ (KHZ) — MICROPHONE ANGLES IN DEGREES

	60	70	80	90	100	110	120	130	140	150	160	POWER DB-12W
.050	108.4	108.7	109.5	110.7	111.4	112.2	117.2	123.6	129.2	132.2	130.5	
.063	109.2	109.3	110.3	111.7	112.6	113.9	117.6	122.2	130.1	132.6	129.9	167.7
.080	109.9	110.0	110.4	111.9	113.7	115.8	119.7	120.2	131.2	132.9	130.0	168.0
.100	109.5	110.0	110.7	111.9	112.9	116.2	120.4	123.1	131.6	132.2	127.4	166.6
.125	109.0	109.5	110.8	112.5	114.0	116.5	121.2	124.8	131.9	131.4	125.4	166.5
.160	109.9	109.8	111.1	112.7	114.4	117.3	122.1	125.5	131.8	128.8	122.4	166.4
.200	111.0	111.2	112.1	113.6	115.4	118.7	123.2	127.1	131.4	127.0	121.8	167.8
.250	111.1	111.5	113.2	114.5	116.2	119.6	123.9	127.6	129.6	125.6	119.7	167.8
.315	111.1	111.7	113.3	115.6	117.1	120.5	124.5	128.5	127.9	123.9	118.2	167.1
.400	111.3	111.5	113.0	115.3	117.4	120.6	124.3	127.9	126.5	122.3	116.5	166.9
.500	111.8	111.7	113.4	115.7	117.6	121.0	124.3	126.6	125.4	121.1	115.1	166.2
.630	111.8	112.3	113.7	115.9	117.6	120.9	124.0	124.8	123.9	119.6	113.3	165.6
.800	112.0	112.8	114.1	116.2	117.8	120.4	123.2	123.9	123.3	118.5	112.3	164.6
1.00	111.8	112.8	114.3	116.5	117.7	120.0	122.2	123.2	121.8	117.5	111.2	164.0
1.25	111.9	112.9	114.8	116.9	118.0	119.9	121.7	122.4	121.5	116.9	110.7	163.3
1.60	111.2	112.3	114.3	116.3	117.3	118.8	120.7	121.3	120.0	115.8	109.3	163.1
2.00	111.1	112.4	114.5	116.6	117.2	119.1	120.1	120.8	119.4	115.4	109.4	162.1
2.50	110.8	112.3	114.5	116.3	117.1	118.2	120.1	120.0	118.8	114.8	108.4	161.8
3.15	110.8	112.3	114.7	116.5	116.9	118.5	119.3	119.6	118.7	115.0	108.5	161.4
4.00	110.5	112.0	113.9	115.9	116.5	118.2	119.7	120.9	118.1	114.6	108.3	161.2
5.00	109.3	111.0	113.2	115.3	116.4	117.8	119.3	119.3	117.5	114.1	107.7	161.2
6.30	109.2	110.6	113.4	115.4	116.8	118.1	119.8	120.0	118.3	114.7	107.8	160.6
8.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	161.0
10.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
												0.0

OAPWL = 179.2

OSPL	124.1	124.9	126.6	128.5	129.8	132.2	135.2	137.7	141.0	140.5	136.7
PNL	135.5	136.6	138.6	140.5	141.4	143.4	145.5	147.0	146.9	143.9	138.6

200. SIDELINE

PNL	131.4	133.3	135.8	137.8	138.6	140.1	141.4	141.7	140.1	134.8	126.0

370. SIDELINE

PNL	125.2	127.2	129.7	131.7	132.5	134.0	135.2	135.4	134.2	128.9	119.9

800. SIDELINE

PNL	116.5	118.6	121.1	123.2	124.0	125.4	126.8	127.1	126.3	120.9	111.7

2128. SIDELINE

PNL	103.3	105.4	107.9	110.1	111.0	112.6	114.6	115.6	115.2	109.7	100.5

STAND X206 RIG ID 070536 TEST DATE 02/25/77 SCALE RATIO 0.0/1 RUN NUMBER 20082 CONDITION 8201

			PRIMARY	FAN		PRIMARY	FAN			PRIMARY	FAN		PRIMARY	FAN
TEMP 53°F (11.7°C)	AREA	SQFT	0.0	0.0	SQM	0.0	0.0	MASS FLOW	LB/S	0.0	0.0	KG/S	0.0	0.0
PRES 29.53IN 1.00BAR	P.R.		1.53	1.29		1.53	1.52	THRUST,IDL	LB	95.0	92.5	KN	0.423	0.412
WIND D	TEMP	(R)	1460.7	1264.7	(K)	811.5	702.6	THRUST,MEA	LB		0.0	KN	0.0	
WIND V OMPH 0.0M/S	RHO	LB/FT3	0.030	0.034	KG/M3	0.488	0.542	AREA (MOD)	SQFT	0.060	0.080	SQM	0.006	0.007
REL H 30%	VEL	FPS	1416.2	1034.6	M/S	431.6	315.4	W (MODEL)	LB/S	2.2	2.9	KG/S	1.0	1.3

1/3 OCTAVE BAND MODEL JET NOISE DATA 15.0FT RADIUS

THEORETICAL DAY SPL - (MODEL)

BAND CENTER FREQ (KHZ)	MICROPHONE ANGLES IN DEGREES 60	70	80	90	100	110	120	130	140	150	160	POWER 1E-12W
.050	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
.063	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
.080	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
.100	78.4	81.5	83.6	84.1	84.0	84.8	86.6	88.9	89.8	93.5	97.8	0.0
.125	80.3	84.6	84.3	84.8	86.5	86.6	85.5	90.1	93.4	96.2	98.9	110.5
.160	81.3	85.1	85.9	84.0	83.3	84.9	85.7	88.6	93.3	97.5	101.1	111.4
.200	85.1	84.2	84.9	85.6	86.1	87.3	89.3	92.3	97.4	102.0	104.6	112.9
.250	88.1	87.3	87.8	88.1	87.5	88.2	91.0	95.0	100.0	104.1	105.9	116.6
.315	86.1	87.1	87.7	88.9	89.7	91.0	93.4	98.4	102.3	106.3	109.5	118.7
.400	89.7	89.7	89.9	90.6	91.7	98.6	96.3	101.4	105.5	109.5	112.5	121.2
.500	91.7	91.3	91.4	92.1	93.0	100.0	97.3	101.9	107.8	111.9	111.3	124.5
.630	92.2	92.3	92.9	93.5	94.4	96.2	99.1	104.6	109.3	112.6	111.7	126.5
.800	93.6	93.0	93.2	94.3	94.9	96.6	99.5	105.3	110.5	113.7	112.7	126.8
1.00	92.3	93.7	93.2	94.4	96.7	98.6	100.8	106.1	110.9	113.1	112.1	127.6
1.25	91.8	92.4	93.3	94.2	96.1	98.2	100.8	105.4	109.7	111.2	109.8	127.6
1.60	90.4	91.6	92.5	93.8	95.4	97.6	100.7	105.0	108.0	109.3	108.0	126.4
2.00	89.5	90.6	92.1	93.4	95.3	97.6	100.8	104.3	105.1	106.4	105.0	125.1
2.50	86.6	90.3	91.5	93.2	95.1	97.5	100.7	104.0	104.3	103.6	101.4	123.3
3.15	87.9	89.4	90.5	92.5	94.6	97.0	100.1	102.8	102.1	100.2	97.3	122.1
4.00	87.6	88.9	90.3	91.9	94.1	96.6	99.4	101.4	99.6	96.3	92.1	120.5
5.00	87.6	87.8	89.4	91.1	93.1	95.3	98.1	99.5	97.1	92.8	87.6	118.1
6.30	86.1	87.1	88.6	90.3	92.1	94.6	97.1	98.0	94.6	89.6	83.5	117.4
8.00	84.7	85.3	87.6	89.4	91.2	93.7	95.7	96.0	92.3	86.9	80.8	116.6
10.0	83.5	85.1	86.8	88.5	90.2	92.3	94.2	93.9	90.4	85.2	79.2	115.6
12.5	82.8	84.1	85.5	87.2	89.0	91.1	92.5	91.7	88.5	83.7	78.4	114.3
16.0	81.4	83.0	84.6	86.2	88.0	89.6	91.1	90.3	87.1	82.5	77.1	113.2
20.0	79.8	81.5	83.1	84.5	86.0	87.4	89.0	88.1	84.9	81.0	76.1	111.5
25.0	78.9	80.2	82.2	83.6	85.1	86.9	87.2	86.6	84.1	80.2	77.6	110.2
31.5	77.7	79.3	80.9	82.7	83.9	85.1	86.1	85.1	82.7	79.7	76.1	108.2
40.0	76.5	78.3	79.7	81.8	82.6	84.4	84.4	84.2	82.0	79.7	77.1	107.1
50.0	75.5	77.4	79.1	80.7	81.5	83.3	83.8	83.1	81.8	79.9	78.8	105.3
63.0	73.8	75.7	77.8	79.4	80.6	82.0	82.4	82.1	81.7	81.3	80.7	104.7
80.0	73.7	75.2	76.9	78.4	79.9	81.2	81.9	82.2	82.7	83.1	83.2	104.0
100.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	103.1
												103.0
												0.0
OASPL	102.4	103.1	103.8	105.0	106.6	110.6	111.3	115.1	118.6	121.0	120.8	OAPWL = 136.3

5.1B-1

STAND X206 RIG ID 070530 TEST DATE 02/25/77 SCALE RATIO 12.0/1 RUN NUMBER 2008 CONDITION 8201

				PRIMARY	FAN		PRIMARY	FAN			PRIMARY	FAN		PRIMARY	FAN
TEMP	77.0(F)	25.0(C)	AREA	SQFT	8.640	11.520	SQM	0.803	1.070	MASS FLOW	LB/S	211.0	381.6	KG/S	141.1	188.4
PRES	29.53IN	1.00BAR	P.R.		1.53	1.29		1.53	1.29	THRUST,IDL	LB	13679.6	13329.6	KN	60.856	59.275
WIND D			TEMP	(R)	1460.7	1264.7	(K)	811.5	702.6	THRUST,MEA	LB		0.0	KN	0.0	
WIND V	0MPH	0.0M/S	RHO	LB/FT3	0.030	0.034	KG/M3	0.488	0.542	AREA (MOD)	SQFT	0.060	0.080	SQM	0.006	0.007
REL H	70.0%		VEL	FPS	1416.2	1034.6	M/S	431.6	315.4	W (MODEL)	LB/S	2.2	2.9	KG/S	1.0	1.3

FAA DAY

1/3 OCTAVE BAND ENGINE JET NOISE DATA 150.0FT RADIUS (SCALED ENGINE)

BAND CENTER FREQ (KHZ)	MICROPHONE ANGLES IN DEGREES 60	70	80	90	100	110	120	130	140	150	160	POWER 1E-12W
.050	93.8	93.9	94.5	95.1	96.0	97.8	100.7	106.2	110.9	114.2	113.3	149.9
.063	95.2	94.6	94.8	95.9	96.5	98.2	101.1	106.9	112.1	115.3	114.3	151.0
.080	93.9	95.3	94.8	96.0	98.3	100.2	102.4	107.7	112.5	114.7	113.7	150.9
.100	93.4	94.0	94.9	95.8	97.7	99.8	102.4	107.0	111.3	112.8	111.4	149.6
.125	92.0	93.2	94.1	95.4	97.0	99.2	102.3	106.6	109.6	110.9	109.6	148.2
.160	91.0	92.1	93.6	94.9	96.8	99.1	102.3	105.8	107.6	107.9	106.5	146.9
.200	90.1	91.8	93.0	94.7	96.6	99.0	102.2	105.5	105.8	105.1	102.9	145.2
.250	89.4	90.9	92.3	94.0	96.1	98.5	101.6	104.3	103.6	101.7	98.8	143.6
.315	89.1	90.4	91.8	93.4	95.6	98.1	100.9	102.9	101.1	97.8	93.6	142.2
.400	88.5	89.3	90.9	92.6	94.6	96.8	99.6	101.1	98.6	94.3	89.1	140.5
.500	87.5	88.5	90.0	91.7	93.5	96.0	98.5	99.4	96.0	91.0	84.9	138.1
.630	86.1	87.7	89.0	90.8	92.6	95.1	97.1	97.4	93.7	88.3	82.2	137.6
.800	84.9	86.5	88.2	89.9	91.6	93.7	95.6	95.3	91.8	86.6	80.6	136.6
1.00	84.1	85.4	86.8	88.5	90.3	92.4	93.8	93.0	89.8	85.0	79.7	134.4
1.25	82.6	84.2	85.8	87.4	89.2	90.8	92.3	91.5	88.3	83.7	78.3	133.0
1.60	80.9	82.6	84.2	85.6	87.1	88.5	90.1	89.2	86.0	82.1	77.2	130.9
2.00	80.0	81.3	83.3	84.7	86.2	88.0	88.3	87.7	85.2	81.3	78.7	129.8
2.50	78.6	80.2	81.8	83.6	84.8	86.0	87.0	86.0	83.5	80.6	77.0	128.3
3.15	77.2	79.0	80.4	82.5	83.3	85.1	85.1	84.9	82.7	80.4	77.8	127.0
4.00	76.0	77.9	79.6	81.2	82.0	83.8	84.3	83.6	82.3	80.4	79.3	126.0
5.00	74.1	76.0	78.1	79.5	80.9	82.3	82.7	82.4	82.0	81.6	81.0	124.9
6.30	73.7	75.2	76.9	78.4	79.9	81.2	81.9	82.2	82.7	83.1	83.2	124.5
8.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

OAPWL = 156.2

OSPL	102.7	103.5	104.4	105.7	107.4	109.6	112.3	116.0	119.2	121.2	120.1
PNL	107.2	108.5	109.9	111.5	113.0	115.1	117.3	119.2	119.7	119.6	117.7

200. SIDELINE

PNL	103.2	105.3	107.1	108.8	110.3	112.0	113.4	114.2	113.2	110.8	105.4

370. SIDELINE

PNL	97.4	99.4	101.3	103.0	104.6	106.2	107.7	108.6	107.5	105.1	99.6

800. SIDELINE

PNL	89.6	91.7	93.6	95.3	96.9	98.6	100.1	101.1	100.1	97.6	92.0

2128. SIDELINE

PNL	78.4	80.5	82.5	84.4	86.0	87.8	89.4	90.6	89.8	87.3	80.7

20082F TAPE P7300 NASA VSCE (NAS3-20061) CONFIG. B

15.2049

STAND X206 RIG ID 070530 TEST DATE 02/25/77 SCALE RATIO 12.0/1 RUN NUMBER 20082 CONDITION 8202

					PRIMARY	FAN		PRIMARY	FAN			PRIMARY	FAN		PRIMARY	FAN
TEMP	53°F	11.7°C	AREA	SQFT	0.0	0.0	SQM	0.0	0.0	MASS FLOW	LB/S	0.0	0.0	KG/S	0.0	0.0
PRES	29.53IN	1.00BAR	P.R.		1.52	1.81		1.52	1.81	THRUST,IDL	LB	87.2	225.6	KN	0.388	1.004
WIND D			TEMP	(R)	1465.7	1266.7	(K)	814.3	703.7	THRUST,MEA	LB		0.0	KN	0.0	
WIND V	0MPH	0.0M/S	RHO	LB/FT3	0.030	0.037	KG/M3	0.486	0.590	AREA (MOD)	SQFT	0.060	0.080	SQM	0.006	0.007
REL H	31 %		VEL	FPS	1410.8	1542.5	M/S	430.0	470.2	W (MODEL)	LB/S	2.0	4.7	KG/S	0.9	2.1

1/3 OCTAVE BAND MODEL JET NOISE DATA 15.0FT RADIUS

THEORETICAL DAY SPL - (MODEL)

BAND CENTER FREQ (KHZ)	MICROPHONE ANGLES IN DEGREES 60	70	80	90	100	110	120	130	140	150	160	POWER 1E-12W
.050	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
.063	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
.080	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
.100	86.6	86.6	88.9	88.8	88.9	89.9	91.3	93.4	94.2	98.3	102.6	115.2
.125	84.7	88.6	88.7	89.6	91.3	91.4	90.1	94.4	97.3	100.4	103.4	116.7
.160	86.3	89.4	88.9	88.6	88.2	89.6	90.3	92.9	97.3	101.7	105.7	117.3
.200	89.2	88.4	89.7	90.5	91.3	92.4	93.8	96.3	101.5	106.4	108.9	121.0
.250	92.2	91.7	92.6	92.9	92.4	93.4	95.4	99.2	104.1	108.4	110.2	123.6
.315	90.1	91.4	92.3	93.8	94.6	95.8	98.2	102.8	106.8	111.0	113.9	125.8
.400	94.2	94.4	94.7	95.4	96.7	105.3	100.7	105.9	110.1	114.0	116.9	129.0
.500	95.5	95.3	95.8	96.6	97.1	110.1	101.8	106.5	112.4	116.3	115.3	129.6
.630	96.1	96.1	96.9	97.9	98.9	106.7	103.6	109.0	113.6	116.8	115.6	130.8
.800	96.9	96.7	97.3	98.7	99.7	101.4	103.9	109.5	114.1	117.3	116.5	131.0
1.00	96.8	97.7	97.9	99.1	100.9	103.2	105.4	109.8	114.0	116.7	116.3	131.6
1.25	96.5	97.3	98.5	99.3	100.9	103.6	105.5	109.5	112.5	114.7	114.6	131.5
1.60	95.9	96.8	97.7	99.0	100.4	102.8	105.3	109.0	110.7	112.8	113.0	130.2
2.00	95.2	96.0	97.5	98.9	100.7	102.9	105.7	108.5	109.4	110.4	111.0	128.9
2.50	94.8	96.1	97.5	99.3	100.9	103.4	106.1	108.5	108.4	108.9	109.7	127.7
3.15	94.6	95.9	97.3	99.0	100.8	103.4	106.0	107.8	107.4	107.5	108.7	127.2
4.00	94.5	95.7	97.1	98.9	100.8	103.5	105.8	107.1	106.2	106.4	107.1	126.6
5.00	94.2	94.8	96.5	98.3	100.4	102.9	105.2	106.1	104.9	105.4	106.2	126.0
6.30	93.6	94.6	96.2	98.2	100.1	102.6	104.6	105.3	104.0	104.4	104.3	125.2
8.00	92.2	93.9	95.7	97.7	99.6	102.0	104.0	104.2	102.6	102.8	102.1	124.4
10.0	91.6	93.2	95.4	97.3	99.2	101.4	103.2	103.1	101.5	101.6	100.0	123.6
12.5	90.9	92.5	94.4	96.5	98.3	100.8	102.3	101.6	100.1	99.6	97.7	122.7
16.0	89.8	91.6	93.7	95.9	97.8	99.7	101.1	100.6	98.7	97.8	95.5	121.6
20.0	88.3	90.2	92.4	94.4	96.3	98.0	99.7	98.6	96.6	95.6	93.6	120.5
25.0	87.0	88.8	91.5	93.7	95.5	97.3	98.0	97.3	95.6	94.0	93.3	118.8
31.5	85.7	87.8	90.2	92.5	94.3	95.8	97.0	96.0	94.0	92.8	92.3	117.7
40.0	84.9	86.9	88.9	91.7	93.0	95.0	95.4	95.1	93.2	92.3	92.3	116.4
50.0	83.8	85.9	88.3	90.5	91.9	94.0	94.9	93.8	92.3	91.3	92.1	115.4
63.0	82.4	84.5	87.1	89.2	91.1	92.6	93.4	92.5	91.2	90.5	91.6	114.5
80.0	82.3	84.0	86.5	88.5	90.5	91.6	92.9	92.4	91.1	90.8	92.6	113.3
100.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	112.9
												0.0
OSPL	107.6	108.4	109.7	111.1	112.7	116.2	117.2	119.9	122.5	125.2	125.5	OAPWL = 140.9

ORIGINAL PAGE IS OF POOR QUALITY

20082F TAPE P7300 NASA VSCE (NAS3-20061) CONFIG. B 15.2049

STAND X206 RIG ID 070530 TEST DATE 02/25/77 SCALE RATIO 12.0/1 RUN NUMBER 2008 CONDITION 8202

					PRIMARY	FAN		PRIMARY	FAN			PRIMARY	FAN		PRIMARY	FAN
TEMP	77.0(F)	25.0(C)	AREA	SQFT	8.640	11.520	SQM	0.803	1.070	MASS FLOW	LB/S	299.5	623.5	KG/S	130.0	307.6
PRES	29.53IN	1.00BAR	P.R.		1.52	1.81		1.52	1.81	THRUST,IDL	LB	12555.2	32490.5	KN	55.846	144.524
WIND D			TEMP	(R)	1465.7	1266.7	(K)	814.3	703.7	THRUST,MEA	LB		0.0	KN	0.0	
WIND V	0MPH	0.0M/S	RHO	LB/FT3	0.030	0.037	KG/M3	0.486	0.590	AREA (MOD)	SQFT	0.060	0.080	SQM	0.006	0.007
REL H	70.0%		VEL	FPS	1410.8	1542.5	M/S	430.0	470.2	W (MODEL)	LB/S	2.0	4.7	KG/S	0.9	2.1

FAA DAY

1/3 OCTAVE BAND ENGINE JET NOISE DATA 150.0FT RADIUS (SCALED ENGINE)

BAND CENTER FREQ (KHZ) — MICROPHONE ANGLES IN DEGREES

	60	70	80	90	100	110	120	130	140	150	160	POWER 1E-12W
.050	97.7	97.7	98.5	99.5	100.5	102.3	105.2	110.6	115.2	116.4	117.2	154.2
.063	98.5	98.3	98.9	100.3	101.3	103.0	105.5	111.1	115.7	118.9	118.1	154.7
.080	98.4	99.3	99.5	100.7	102.5	104.8	107.0	111.4	115.6	118.3	117.9	154.6
.100	98.1	98.9	100.1	100.9	102.5	104.6	107.1	111.1	114.1	116.3	116.2	153.3
.125	97.5	98.4	99.3	100.6	102.0	104.4	106.9	110.6	112.3	114.4	114.6	152.0
.160	96.7	97.5	99.0	100.4	102.2	104.4	107.2	110.0	110.9	111.9	112.5	150.8
.200	96.3	97.6	99.0	100.8	102.4	104.9	107.6	110.0	109.9	110.4	111.2	150.3
.250	96.1	97.4	98.8	100.5	102.3	104.9	107.5	109.3	108.9	109.0	110.2	149.7
.315	96.0	97.2	98.6	100.4	102.3	105.0	107.3	108.6	107.7	107.9	108.6	149.1
.400	95.7	96.3	98.0	99.8	101.9	104.4	106.7	107.6	106.4	106.9	107.7	148.2
.500	95.0	96.0	97.6	99.6	101.5	104.0	106.0	106.7	105.4	105.8	105.7	147.5
.630	93.6	95.3	97.1	99.1	101.0	103.4	105.4	105.6	104.0	104.2	103.5	146.6
.800	93.0	94.6	96.8	98.7	100.6	102.8	104.6	104.5	102.9	103.0	101.4	145.6
1.00	92.2	93.8	95.7	97.8	99.6	102.1	103.6	102.9	101.4	100.9	99.0	144.5
1.25	91.0	92.8	94.9	97.1	99.0	100.9	102.3	101.8	99.9	99.0	96.7	143.3
1.60	89.4	91.3	93.5	95.5	97.4	99.1	100.8	99.7	97.7	96.7	94.7	141.5
2.00	88.1	89.9	92.6	94.8	96.6	98.4	99.1	98.4	96.7	95.1	94.4	140.4
2.50	86.6	88.7	91.1	93.4	95.2	96.7	97.9	96.9	94.9	93.7	93.2	138.9
3.15	85.6	87.6	89.6	92.4	93.7	95.7	96.1	95.8	93.9	93.0	93.0	137.7
4.00	84.3	86.4	88.8	91.0	92.4	94.5	95.4	94.3	92.8	91.8	92.6	136.5
5.00	82.7	84.8	87.4	89.5	91.4	92.9	93.7	92.8	91.5	90.8	91.9	135.1
6.30	82.3	84.0	86.5	88.5	90.5	91.6	92.9	92.4	91.1	90.8	92.6	134.4
8.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

DAPWL = 162.8

OSPL	108.2	109.1	110.4	112.0	113.7	116.0	118.2	120.9	123.0	125.3	125.0
PNL	114.4	116.0	117.9	119.9	121.7	123.6	125.2	125.9	125.7	126.6	126.5

200. SIDELINE

PNL	110.4	112.7	115.1	117.3	118.9	120.4	121.2	120.9	119.1	117.7	114.0

370. SIDELINE

PNL	104.6	106.8	109.2	111.4	113.0	114.5	115.4	115.2	113.3	111.9	108.0

800. SIDELINE

PNL	96.8	98.8	101.2	103.3	104.9	106.6	107.7	107.5	105.7	104.2	100.0

2128. SIDELINE

PNL	85.6	87.7	90.0	92.1	93.8	95.5	96.6	96.7	95.0	93.6	88.8

STAND X206 RIG ID 070530 TEST DATE 02/25/77 SCALE RATIO 12.0/1 RUN NUMBER 20082 CONDITION 8203

			PRIMARY	FAN		PRIMARY	FAN				PRIMARY	FAN		PRIMARY	FAN
TEMP 53°F (11.7°C)	AREA	SQFT	0.0	0.0	SQM	0.0	0.0	MASS FLOW	LB/S		0.0	0.0	KG/S	0.0	0.0
PRES 29.33IN 1.00BAR	P.R.		1.53	2.48		1.53	1.53	THRUST,IDL	LB		79.5	379.0	KN	0.354	1.686
WIND D	TEMP	(K)	1481.7	1267.7	(K)	823.2	704.3	THRUST,MEA	LB			0.0	KN	0.0	
WIND V 0MPH 0.0M/S	RHO	LB/FT3	0.030	0.040	KG/M3	0.482	0.640	AREA (MOD)	SQFT		0.060	0.080	SQM	0.006	0.007
REL H 31%	VEL	FPS	1430.0	1874.8	M/S	435.9	571.4	W (MODEL)	LB/S		1.6	6.5	KG/S	0.8	3.0

1/3 OCTAVE BAND MODEL JET NOISE DATA 15.0FT RADIUS THEORETICAL DAY SPL - (MODEL)

BAND CENTER FREQ (KHZ)	MICROPHONE ANGLES IN DEGREES 60	70	80	90	100	110	120	130	140	150	160	POWER 1E-12W
.050	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
.063	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
.080	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
.100	88.3	91.3	92.9	92.7	93.2	93.9	95.1	96.8	97.9	102.3	107.2	0.0
.125	89.3	92.7	92.7	93.8	95.3	95.2	94.1	97.5	100.7	104.2	107.4	119.3
.160	91.3	93.6	92.0	92.3	92.6	93.5	94.1	96.1	100.7	105.8	109.7	120.5
.200	93.7	92.9	94.0	94.6	95.7	96.4	97.9	99.7	105.1	110.3	113.4	121.2
.250	97.3	96.5	97.0	97.0	96.9	97.3	98.7	102.1	107.5	112.2	114.6	125.0
.315	94.3	95.6	96.3	97.7	99.3	99.5	101.5	106.0	110.1	115.0	118.4	126.8
.400	98.6	98.5	98.7	99.3	100.6	102.8	104.0	109.2	114.1	118.3	121.5	129.6
.500	99.4	99.4	99.7	100.2	100.7	103.5	205.1	109.8	116.1	120.8	119.7	133.2
.630	100.5	100.7	100.9	101.7	102.2	104.1	107.0	112.7	117.6	121.1	119.9	134.9
.800	101.0	101.0	101.6	102.8	103.4	104.8	107.4	113.1	117.8	121.7	121.0	135.1
1.00	101.7	102.8	102.5	103.0	104.8	107.0	109.2	113.8	117.7	121.3	121.4	135.7
1.25	102.3	102.6	103.6	103.7	105.3	106.8	109.6	113.5	116.6	120.1	120.3	135.8
1.60	102.4	103.3	103.2	103.8	104.9	107.0	109.7	113.6	115.3	119.4	120.2	134.9
2.00	102.9	102.6	103.1	104.0	105.3	107.3	110.5	113.3	114.5	118.7	120.1	134.5
2.50	102.0	102.6	103.3	104.3	105.7	107.9	111.0	113.5	114.5	119.0	120.2	134.0
3.15	101.7	102.1	102.8	104.0	105.7	108.2	111.3	113.3	114.7	119.4	119.9	134.0
4.00	101.2	101.8	102.6	104.0	105.7	108.6	111.4	112.8	115.4	119.4	118.1	134.4
5.00	101.2	101.1	102.0	103.6	105.7	108.2	111.1	112.4	115.6	118.5	116.1	134.3
6.30	104.0	102.2	102.0	103.6	105.4	108.1	111.0	112.1	115.7	116.6	113.6	133.7
8.00	104.2	104.6	103.5	103.6	105.2	108.0	110.5	111.5	114.7	114.6	111.6	132.9
10.0	102.5	104.4	105.1	104.6	105.3	107.7	110.0	110.9	113.6	113.6	109.9	132.1
12.5	100.4	102.4	103.9	105.2	105.3	107.3	109.4	109.9	112.2	112.1	108.2	131.5
16.0	98.9	100.7	102.5	104.1	105.5	106.9	108.6	109.1	111.0	110.9	106.9	130.5
20.0	97.0	99.1	100.8	102.3	104.0	105.6	107.4	107.3	109.3	109.5	105.5	129.6
25.0	95.4	97.4	99.7	101.5	103.1	105.4	106.1	106.1	108.2	108.4	105.1	128.1
31.5	93.8	96.2	98.3	100.4	102.1	103.8	105.3	105.6	107.0	107.6	103.9	127.1
40.0	92.7	95.1	97.0	99.4	100.8	103.2	103.8	104.2	106.4	107.3	103.5	126.0
50.0	91.4	93.7	96.1	98.1	99.5	102.0	103.5	103.2	105.9	106.2	103.3	125.1
63.0	89.9	92.3	94.5	96.6	98.5	100.9	102.0	102.2	105.1	105.6	102.3	124.3
80.0	89.6	91.6	93.9	95.9	97.9	99.5	101.5	102.1	105.3	106.4	102.9	123.3
100.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	123.2
												0.0
OSPL	114.5	115.1	115.7	116.7	118.0	121.1	122.6	125.0	128.2	131.5	131.6	OAPWL = 146.7

STAND X206 RIG ID 676530 TEST DATE 02/25/77 SCALE RATIO 12.0/1 RUN NUMBER 2008 CONDITION 8203

					PRIMARY	FAN		PRIMARY	FAN			PRIMARY	FAN		PRIMARY	FAN
TEMP	77.0(F)	25.0(C)	AREA	SQFT	8.640	11.520	SQM	0.803	1.070	MASS FLOW	LB/S	273.8	895.7	KG/S	116.9	425.2
PRES	29.53IN	1.00BAR	P.R.		1.53	2.48		1.53	2.48	THRUST,IDL	LB	11446.8	54581.5	KN	50.917	242.789
WIND D			TEMP	(R)	1481.7	1267.7	(K)	823.2	704.3	THRUST,MEA	LB		0.0	KN	0.0	
WIND V	OMPH	0.0M/S	RHO	LB/FT3	0.030	0.040	KG/M3	0.482	0.640	AREA (MOD)	SQFT	0.060	0.080	SQM	0.006	0.007
REL H	70.0%		VEL	FPS	1430.0	1674.8	M/S	435.9	571.4	W (MODEL)	LB/S	1.8	6.5	KG/S	0.8	3.0

FAR DAY

1/3 OCTAVE BAND ENGINE JET NOISE DATA 150.0FT RADIUS (SCALED ENGINE)

BAND CENTER FREQ (KHZ)	MICROPHONE ANGLES IN DEGREES 60	70	80	90	100	110	120	130	140	150	160	POWER 1E-12W
.050	102.1	102.3	102.5	103.3	103.8	105.7	108.6	114.3	119.2	122.7	121.5	
.063	102.6	102.6	103.2	104.4	105.0	106.4	109.0	114.7	119.4	123.3	122.6	156.3
.080	103.3	104.4	104.1	104.6	106.4	108.6	110.8	115.4	119.3	122.9	123.0	158.8
.100	103.9	104.2	105.2	105.3	106.9	108.4	111.2	115.1	118.2	121.7	121.9	156.9
.125	104.0	104.9	104.8	105.4	106.5	108.6	111.3	115.2	116.9	121.0	121.8	156.1
.160	104.4	104.1	104.6	105.5	106.8	108.8	112.0	114.8	116.0	120.2	121.6	157.6
.200	103.5	104.1	104.8	105.8	107.2	109.4	112.5	115.0	116.0	120.5	121.7	157.2
.250	103.2	103.6	104.3	105.5	107.2	109.7	112.8	114.8	116.2	120.9	121.4	157.4
.315	102.7	103.3	104.1	105.5	107.2	110.1	112.9	114.3	116.9	120.9	119.6	157.5
.400	102.7	102.6	103.5	105.1	107.2	109.7	112.6	113.9	117.1	120.0	117.6	157.4
.500	103.4	103.6	103.4	105.0	106.8	109.5	112.4	113.5	117.1	118.0	115.0	156.8
.630	105.6	106.0	104.9	105.0	106.6	109.4	111.9	112.9	116.1	116.0	113.0	156.0
.800	103.9	105.8	106.5	106.0	106.7	109.1	111.4	112.3	115.0	115.0	111.3	155.1
1.00	101.7	103.7	105.2	106.5	106.6	108.6	110.7	111.2	113.5	113.4	109.5	154.3
1.25	100.1	101.9	103.7	105.3	106.7	108.1	109.8	110.3	112.2	112.1	108.1	153.4
1.60	98.1	100.2	101.9	103.4	105.1	106.7	108.5	108.4	110.4	110.6	106.6	152.4
2.00	96.5	98.5	100.8	102.6	104.2	106.5	107.2	107.2	109.3	109.5	106.2	150.8
2.50	94.7	97.1	99.2	101.3	103.0	104.7	106.2	105.9	107.9	108.5	104.8	149.7
3.15	93.4	95.8	97.7	100.1	101.5	103.9	104.5	104.9	107.1	108.0	104.2	148.4
4.00	91.9	94.2	96.6	98.6	100.0	102.5	104.0	103.7	106.4	106.7	103.8	147.4
5.00	90.2	92.6	94.8	96.9	98.8	101.2	102.3	102.5	105.4	105.9	102.6	146.3
6.30	89.6	91.6	93.9	95.9	97.9	99.8	101.5	102.1	105.3	106.4	102.9	145.2
8.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	144.7
10.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9
												0.6

OAPWL = 169.0

OSPL	115.5	116.1	116.7	117.7	119.0	121.2	123.8	126.1	129.0	132.2	131.8	
PNL	122.7	123.8	125.3	126.8	128.3	130.4	132.3	133.2	135.6	137.6	136.1	
				200. SIDELINE								
PNL	118.8	120.6	122.5	124.2	125.5	127.2	128.3	128.0	128.8	128.6	123.5	
				370. SIDELINE								
PNL	113.0	114.7	116.6	118.2	119.6	121.2	122.3	122.0	122.9	122.6	117.4	
				800. SIDELINE								
PNL	105.3	107.0	108.5	110.1	111.5	113.2	114.1	114.1	115.0	114.6	109.2	
				2128. SIDELINE								
PNL	94.1	95.8	97.0	98.1	99.6	101.3	102.8	102.9	103.5	103.0	97.6	

STAND X206 RIG ID 070530 TEST DATE 02/25/77 SCALE RATIO 12.0/1 RUN NUMBER 20082 CONDITION 8264

					PRIMARY	FAN		PRIMARY	FAN			PRIMARY	FAN		PRIMARY	FAN
TEMP	54°F	12.2°C	AREA	SQFT	0.0	0.0	SQM	0.0	0.0	MASS FLOW	LB/S	0.0	0.0	KG/S	0.0	0.0
PRES	29.53IN	1.00BAR	P.R.		1.53	3.18		1.53	3.18	THRUST,IDL	LB	75.3	541.6	KN	0.335	2.406
WIND D			TEMP	(R)	1461.7	1249.7	(K)	812.1	694.3	THRUST,MEA	LB		0.0	KN	0.0	
WIND V	0MPH	0.0M/S	RHO	LB/FT3	0.060	0.043	KG/M3	0.488	0.694	AREA (MOD)	SQFT	0.060	0.080	SQM	0.006	0.007
REL H	31 %		VEL	FPS	1418.8	2068.9	M/S	432.4	630.6	W (MODEL)	LB/S	1.7	8.4	KG/S	0.8	3.8

1/3 OCTAVE BAND MODEL JET NOISE DATA 15.0FT RADIUS THEORETICAL DAY SPL - (MODEL)

BAND CENTER FREQ (KHZ)	MICROPHONE ANGLES IN DEGREES 60	70	80	90	100	110	120	130	140	150	160	POWER 1E-12W
.050	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
.063	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
.080	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
.100	92.3	95.3	96.7	96.0	96.8	97.4	98.0	99.3	100.6	105.3	110.5	0.0
.125	93.0	96.1	96.3	97.0	98.3	98.0	97.0	99.8	103.2	107.0	110.9	122.5
.160	95.1	97.1	95.4	96.1	96.0	96.4	97.0	98.8	103.2	108.5	113.2	123.4
.200	96.8	96.3	97.7	98.0	98.7	99.6	100.7	102.4	107.8	113.2	116.4	124.2
.250	100.7	100.1	100.5	100.1	99.9	100.4	101.5	104.4	110.1	114.8	118.2	128.0
.315	96.9	98.4	99.3	100.6	102.6	102.4	104.1	108.2	112.5	117.7	121.7	129.8
.400	101.2	101.3	101.6	102.2	103.3	111.9	106.7	111.2	116.4	120.9	124.9	132.6
.500	102.1	101.8	101.5	102.4	102.9	116.6	107.2	112.2	118.9	123.7	123.1	136.1
.630	102.6	103.5	103.6	104.2	104.5	106.5	109.2	115.0	120.6	124.2	123.3	137.8
.800	104.2	104.2	104.2	105.3	106.3	107.0	108.4	115.4	120.9	125.3	124.8	138.1
1.00	104.4	105.6	105.3	105.3	107.4	109.6	111.5	116.6	121.3	125.3	125.2	139.6
1.25	105.4	105.7	106.1	106.3	108.2	109.6	112.0	116.5	120.6	125.0	124.8	139.4
1.60	105.3	106.0	105.9	106.3	107.4	109.6	112.3	116.6	119.9	125.3	124.9	139.1
2.00	105.7	105.3	105.6	106.3	107.8	109.7	112.9	116.5	119.6	125.1	124.3	139.1
2.50	104.4	105.1	105.7	106.5	108.6	110.4	113.8	117.1	120.7	125.5	122.9	138.8
3.15	106.8	105.2	105.3	106.3	108.0	110.7	114.2	117.1	121.4	124.3	120.7	139.2
4.00	112.7	110.1	107.0	106.7	108.1	111.1	114.2	116.9	122.2	122.1	117.8	138.7
5.00	111.4	112.6	111.4	108.0	108.3	110.9	114.1	116.6	121.7	120.3	116.2	138.3
6.30	108.6	110.1	112.0	111.7	109.4	111.2	114.1	116.9	120.6	119.0	114.1	137.8
8.00	109.1	108.9	109.5	111.3	111.0	111.4	113.8	116.5	118.7	117.3	112.2	137.2
10.0	109.0	110.4	109.8	109.9	111.5	111.8	113.5	115.8	117.9	116.3	110.7	136.3
12.5	108.2	109.7	110.6	110.3	110.4	112.3	113.2	115.1	116.8	114.9	109.6	135.8
16.0	107.5	109.3	110.3	110.7	110.6	112.3	112.9	114.3	116.2	114.2	108.7	135.2
20.0	106.0	108.0	109.1	109.6	109.8	110.9	112.0	112.7	114.5	112.7	107.3	134.8
25.0	105.0	106.8	108.4	109.3	109.7	110.8	111.0	111.8	113.8	111.8	107.0	133.5
31.5	103.6	105.9	107.5	108.7	108.9	109.6	110.2	110.9	112.9	110.9	105.7	132.9
40.0	102.7	105.1	106.5	108.2	108.2	109.5	109.3	110.7	112.5	111.0	105.4	132.6
50.0	101.6	104.2	106.0	107.3	107.5	109.0	109.2	109.8	112.2	110.4	105.0	131.5
63.0	100.1	102.7	104.9	106.3	107.1	108.1	108.3	109.3	111.9	109.7	104.4	131.0
80.0	99.9	102.2	104.7	106.0	107.0	107.8	108.4	109.6	112.5	110.4	105.1	130.3
100.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	130.4
												0.0
OSPL	120.6	121.2	121.6	121.9	122.4	124.8	125.9	128.8	132.8	135.6	134.9	OAPWL = 150.8

STAND X206 RIG ID 070530 TEST DATE 02/25/77 SCALE RATIO 12.0/1 RUN NUMBER 2008 CONDITION 8204

				PRIMARY	FAN		PRIMARY	FAN		PRIMARY	FAN		PRIMARY	FAN
TEMP	77.0(F)	25.0(C)	AREA	SQFT	8.640	11.520	SQM	0.803	1.070	MASS FLOW	LB/S	267.9 1154.9	KG/S	111.7 550.0
PRES	29.53IN	1.00BAR	P.R.		1.53	3.18		1.53	3.18	THRUST,IDL	LB	10849.6 77903.1	KN	48.261 346.529
WIND D			TEMP	(R)	1461.7	1249.7	(K)	812.1	694.3	THRUST,MEA	LB	0.0	KN	0.0
WIND V	OMPH	0.0M/S	RHO	LB/FT3	0.030	0.043	KG/M3	0.488	0.694	AREA (MOD)	SQFT	0.060 0.060	SQM	0.006 0.007
REL H	70.0%		VEL	FPS	1418.8	2068.9	M/S	432.4	630.6	W (MODEL)	LB/S	1.7 8.4	KG/S	0.5 3.8

FAA DAY

1/3 OCTAVE BAND ENGINE JET NOISE DATA 150.0FT RADIUS (SCALED ENGINE)

BAND CENTER FREQ (KHZ) — MICROPHONE ANGLES IN DEGREES

	60	70	80	90	100	110	120	130	140	150	160	POWER 1E-12W
.050	104.2	105.1	105.2	105.8	106.1	108.1	110.8	116.6	122.2	125.8	124.9	
.063	105.8	105.8	105.8	106.9	107.9	108.6	111.0	117.0	122.5	126.9	126.4	161.2
.080	106.0	107.2	106.9	106.9	109.0	111.2	113.1	118.2	122.9	126.9	126.8	162.1
.100	107.0	107.3	107.7	107.9	109.8	111.2	113.6	118.1	122.2	126.6	126.4	162.5
.125	106.9	107.6	107.5	107.9	109.0	111.2	113.9	118.2	121.5	126.9	126.5	162.2
.160	107.2	106.8	107.1	107.8	109.3	111.2	114.4	118.0	121.1	126.6	125.8	162.3
.200	105.9	106.6	107.2	108.0	109.5	111.9	115.3	118.6	122.2	127.0	124.4	161.9
.250	108.3	106.7	106.8	107.8	109.5	112.2	115.7	118.6	122.9	125.8	122.2	162.3
.315	114.2	111.6	108.5	108.2	109.6	112.6	115.7	118.4	123.7	123.6	119.3	161.8
.400	112.9	114.1	112.9	109.5	109.8	112.4	115.6	118.1	123.2	121.8	117.7	161.4
.500	110.0	111.5	113.4	113.1	110.8	112.6	115.5	118.3	122.0	120.4	115.5	160.9
.630	110.5	110.3	110.9	112.7	112.4	112.8	115.2	117.9	120.1	118.7	113.6	160.3
.800	110.4	111.8	111.2	111.3	112.9	113.2	114.9	117.2	119.3	117.7	112.1	159.3
1.00	109.5	111.0	111.9	111.6	111.7	113.6	114.5	116.4	118.1	116.2	110.9	158.3
1.25	108.7	110.5	111.5	111.9	111.8	113.5	114.1	115.5	117.4	115.4	109.9	158.1
1.60	107.1	109.1	110.2	110.7	110.9	112.0	113.1	113.8	115.6	113.8	108.4	157.7
2.00	106.1	107.9	109.5	110.4	110.8	111.9	112.1	112.9	114.9	112.9	108.1	156.2
2.50	104.5	106.8	108.4	109.6	109.8	110.5	111.1	111.8	113.8	111.8	106.6	155.5
3.15	103.4	105.8	107.2	108.9	108.9	110.2	110.0	111.4	113.2	111.7	106.1	154.4
4.00	102.1	104.7	106.5	107.8	108.0	109.5	109.7	110.3	112.7	110.9	105.5	153.6
5.00	100.4	103.0	105.2	106.6	107.4	108.4	108.6	109.6	112.2	110.0	104.7	153.0
6.30	99.9	102.2	104.7	106.0	107.0	107.8	108.4	109.6	112.5	110.4	105.1	152.2
8.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	151.9
10.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
												0.0

OSPL 121.7 122.3 122.7 122.9 123.4 125.0 127.0 130.0 133.8 136.5 135.0 OAPWL = 173.3

PNL 130.4 131.9 133.0 133.9 134.2 135.6 136.6 138.5 141.2 141.5 138.2

200. SIDELINE

PNL 126.4 128.7 130.2 131.2 131.3 132.3 132.6 133.3 134.4 132.5 125.6

370. SIDELINE

PNL 120.4 122.7 124.2 125.1 125.4 126.2 126.5 127.1 128.5 126.6 119.6

800. SIDELINE

PNL 112.7 114.6 116.0 116.9 117.1 117.8 118.2 118.7 120.5 118.6 111.5

2128. SIDELINE

PNL 101.4 103.3 103.9 104.3 104.5 105.3 106.2 107.3 108.9 107.4 100.1

STAND X206 RIG ID 070530 TEST DATE 02/25/77 SCALE RATIO 12.0/1 RUN NUMBER 20082 CONDITION 8205

				PRIMARY	FAN		PRIMARY	FAN			PRIMARY	FAN		PRIMARY	FAN
TEMP	51°F	10.6°C	AREA	SQFT 0.0	0.0	SQM	0.0	0.0	MASS FLOW	LB/S	0.0	0.0	KG/S	0.0	0.0
PRES	29.53IN	1.00BAR	P/P∞	1.51	1.79		1.51	1.79	THRUST,IDL	LB	84.8	133.3	KN	0.377	0.593
WIND D			TEMP	(R) 1436.7	1933.7	(K)	798.2	1074.3	THRUST,MEA	LB		0.0	KN	0.0	
WIND V	CMPH	0.0M/S	RHO	LB/FT3 0.031	0.024	KG/M3	0.495	0.381	AREA (MOD)	SQFT	0.060	0.080	SQM	0.006	0.007
REL H	31 %		VEL	FPS 1386.3	1899.3	M/S	422.5	578.9	W (MODEL)	LB/S	2.0	2.3	KG/S	0.9	1.0

1/3 OCTAVE BAND MODEL JET NOISE DATA 15.0FT RADIUS THEORETICAL DAY SPL - (MODEL)

BAND CENTER FREQ (KHZ)	MICROPHONE ANGLES IN DEGREES 60	70	80	90	100	110	120	130	140	150	160	POWER 1E-12W
.050	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
.063	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
.080	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
.100	85.1	88.2	90.4	90.8	91.0	91.9	93.3	95.7	96.8	100.4	104.5	117.3
.125	86.1	89.9	90.1	91.0	93.2	93.4	92.2	96.4	99.8	102.6	105.2	118.7
.160	88.8	91.4	90.1	90.6	90.7	91.7	92.6	94.6	99.3	104.0	107.7	119.4
.200	90.6	90.6	91.5	92.6	93.6	94.5	96.1	98.2	104.0	108.8	110.7	123.2
.250	94.0	94.5	94.5	95.2	94.3	95.3	96.6	100.9	105.7	109.9	112.2	124.7
.315	92.4	92.4	93.5	95.4	96.3	96.9	99.4	104.1	108.4	112.7	115.5	127.4
.400	94.0	94.4	95.4	96.1	97.6	99.6	102.6	107.5	112.0	115.5	117.7	129.2
.500	97.5	95.8	96.1	97.7	98.3	100.3	103.2	108.0	114.0	117.9	115.9	131.5
.630	96.1	96.3	98.0	99.6	100.3	102.1	105.1	110.3	114.7	117.9	116.8	132.2
.800	97.9	98.6	98.7	100.1	100.9	102.5	105.3	110.4	114.4	117.5	116.5	132.0
1.00	97.8	98.6	99.5	100.6	102.2	104.3	106.8	111.1	113.8	116.9	117.0	131.9
1.25	98.0	99.4	100.0	101.2	102.9	104.6	107.2	111.0	112.7	115.1	115.7	131.9
1.60	97.7	99.1	100.6	101.2	102.7	104.8	107.5	110.8	111.3	114.2	114.6	130.4
2.00	98.0	99.1	100.3	101.8	103.4	105.4	108.5	110.5	110.7	113.1	113.7	130.6
2.50	98.1	99.6	100.5	102.1	103.8	106.3	109.1	110.6	110.4	113.2	114.5	130.3
3.15	98.1	99.3	100.4	101.9	104.0	106.5	109.3	110.1	110.2	113.4	114.0	130.2
4.00	97.6	99.1	100.3	101.9	104.1	107.0	109.4	109.8	110.2	113.5	113.1	130.2
5.00	97.2	98.4	99.8	101.6	103.9	106.8	108.9	109.2	110.0	112.7	110.9	129.6
6.30	96.5	97.9	99.4	101.6	103.8	106.8	108.6	109.0	110.2	111.5	108.5	129.1
8.00	95.2	97.6	99.3	101.2	103.8	106.5	108.0	108.3	109.6	109.4	106.0	128.4
10.0	94.3	97.0	98.7	100.9	103.2	106.1	107.4	107.4	108.5	107.6	103.9	127.5
12.5	93.7	95.9	97.8	100.2	102.3	105.4	106.5	106.4	106.8	105.6	101.9	126.3
16.0	92.8	95.2	97.4	99.6	101.9	104.5	105.6	105.4	105.3	104.3	100.4	125.3
20.0	91.1	93.8	96.0	98.0	100.3	102.7	104.0	103.4	103.1	102.4	98.6	123.5
25.0	89.9	92.4	94.9	97.2	99.5	101.9	102.3	101.9	101.8	100.9	98.0	122.3
31.5	88.6	91.3	93.6	95.9	98.2	100.1	100.9	100.5	100.2	99.6	96.5	120.8
40.0	87.7	90.3	92.3	95.0	96.6	99.0	99.1	99.4	99.0	98.9	96.0	119.6
50.0	86.5	89.1	91.4	93.6	95.1	97.5	98.4	97.8	97.9	97.8	95.6	118.4
63.0	85.2	87.8	90.2	92.1	94.1	96.1	96.8	96.4	96.6	96.8	94.8	117.1
80.0	85.1	87.1	89.6	91.5	93.7	95.1	96.5	96.3	96.6	97.1	95.7	116.8
100.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
OSPL	109.7	111.0	112.1	113.8	115.6	118.1	120.2	122.1	124.2	127.1	127.1	OAPWL = 142.9

STAND X206 RIG ID 070530 TEST DATE 02/25/77 SCALE RATIO 12.0/1 RUN NUMBER 2004 CONDITION 8205

				PRIMARY	FAN		PRIMARY	FAN			PRIMARY	FAN		PRIMARY	FAN
TEMP	77.0(F)	25.0(C)	AREA	SQFT	8.640	11.520	SQM	0.803	1.070	MASS FLOW	LB/S	290.9	540.0	KG/S	128.7	147.6
PRES	29.53IN	1.00BAR	P.R.		1.51	1.79		1.51	1.79	THRUST,IDL	LB	12213.1	19195.7	KN	54.326	85.386
WIND D			TEMP	(R)	1436.7	1933.7	(K)	798.2	1074.3	THRUST,MEA	LB		0.0	KN	0.0	
WIND V	0MPH	0.0M/S	RHO	LB/FT3	0.031	0.024	KG/M3	0.495	0.381	AREA (MOD)	SQFT	0.060	0.080	SQM	0.006	0.007
REL H	70.0%		VEL	FPS	1386.3	1899.3	M/S	422.5	578.9	W (MODEL)	LB/S	2.0	2.3	KG/S	0.9	1.0

FAA DAY

1/3 OCTAVE BAND ENGINE JET NOISE DATA 150.0FT RADIUS (SCALED ENGINE)

BAND CENTER FREQ (KHZ)	MICROPHONE ANGLES IN DEGREES 60	70	80	90	100	110	120	130	140	150	160	POWER 1E-12W
.050	97.7	97.9	99.6	101.2	101.9	103.7	106.7	111.9	110.3	119.5	118.4	
.063	99.5	100.2	100.3	101.7	102.5	104.1	106.9	112.0	116.0	119.1	118.1	155.3
.080	99.4	100.2	101.1	102.2	103.8	105.9	108.4	112.7	115.4	118.5	118.6	155.1
.100	99.6	101.0	101.6	102.8	104.5	106.2	108.8	112.6	114.3	116.7	117.3	155.1
.125	99.3	100.7	101.6	102.8	104.3	106.4	109.1	112.4	112.9	115.8	116.2	154.2
.160	99.5	100.6	101.8	103.3	104.9	106.9	110.0	112.0	112.2	114.6	115.2	153.5
.200	99.6	101.1	102.0	103.6	105.3	107.8	110.6	112.1	111.9	114.7	116.0	153.1
.250	99.6	100.8	101.9	103.4	105.5	108.0	110.8	111.6	111.7	114.9	115.5	153.4
.315	99.1	100.6	101.8	103.4	105.6	108.5	110.9	111.3	111.7	115.0	114.6	153.3
.400	98.7	99.9	101.3	103.1	105.4	108.3	110.4	110.7	111.5	114.2	112.4	152.8
.500	97.9	99.3	100.8	103.0	105.2	108.2	110.0	110.4	111.6	112.9	109.9	152.7
.630	96.6	99.0	100.7	102.6	105.2	107.9	109.4	109.7	111.0	110.8	107.4	152.1
.800	95.7	98.4	100.1	102.3	104.6	107.5	108.8	108.8	109.9	109.0	105.3	151.4
1.00	95.0	97.2	99.1	101.5	103.6	106.7	107.8	107.7	108.1	106.9	103.2	150.4
1.25	94.0	96.4	98.6	100.8	103.1	105.7	106.8	106.6	106.5	105.5	101.6	149.2
1.60	92.2	94.9	97.1	99.1	101.4	103.8	105.1	104.5	104.2	103.5	99.7	148.2
2.00	91.0	93.5	96.0	98.3	100.6	103.0	103.4	103.0	102.9	102.0	99.1	146.3
2.50	89.5	92.2	94.5	96.8	99.1	101.6	101.8	101.4	101.1	100.5	97.4	145.0
3.15	88.4	91.0	93.0	95.7	97.3	99.7	99.8	100.1	99.7	99.6	96.7	143.3
4.00	87.0	89.6	91.9	94.1	95.6	98.0	98.9	98.3	98.4	98.3	96.1	141.9
5.00	85.5	88.1	90.5	92.4	94.4	96.4	97.1	96.7	96.9	97.1	95.1	140.4
6.30	85.1	87.1	89.6	91.5	93.7	95.1	96.5	96.3	96.6	97.1	95.7	139.6
8.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	138.3
10.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
												0.0

OAPWL = 165.1

OSPL	110.4	111.8	113.1	114.8	116.7	119.2	121.3	123.1	124.7	127.2	126.8	
PNL	117.1	119.2	121.1	123.1	125.2	127.4	128.8	129.3	129.9	131.5	130.2	

200. SIDELINE

PNL	113.1	116.0	118.3	120.4	122.4	124.2	124.8	124.2	123.3	122.5	117.7	

370. SIDELINE

PNL	107.3	110.1	112.4	114.5	116.5	118.3	118.9	118.4	117.4	116.6	111.7	

800. SIDELINE

PNL	99.5	102.1	104.3	106.5	108.4	110.4	111.2	110.7	109.6	108.6	103.5	

2128. SIDELINE

PNL	88.4	91.0	93.1	95.2	97.1	99.2	100.1	99.6	98.3	97.2	92.0	

STAND X206 RIG ID 070530 TEST DATE 02/25/77 SCALE RATIO 12.0/1 RUN NUMBER 20082 CONDITION 8206

				PRIMARY	FAN		PRIMARY	FAN			PRIMARY	FAN		PRIMARY	FAN
TEMP 51°F	10.6°C	AREA	SQFT	0.0	0.0	SQM	0.0	0.0	MASS FLOW	LB/S	0.0	0.0	KG/S	0.0	0.0
PRES 29.53IN	1.006BAR	P.R.		1.53	2.48		1.53	3.48	THRUST,IDL	LB	77.2	229.1	KN	0.343	1.019
WIND D		TEMP	(R)	1417.7	1968.7	(K)	787.6	1093.7	THRUST,MEA	LB		0.0	KN	0.0	
WIND V 0MPH	0.0M/S	RHO	LB/FT3	0.031	0.025	KG/M3	0.504	0.405	AREA (MOD)	SQFT	0.060	0.080	SQM	0.006	0.007
REL H 42 %		VEL	FPS	1396.7	2349.3	M/S	425.7	716.1	W (MODEL)	LB/S	1.8	3.1	KG/S	0.8	1.4

1/3 OCTAVE BAND MODEL JET NOISE DATA 15.0FT RADIUS THEORETICAL DAY SPL - (MODEL)

BAND CENTER FREQ (KHZ)	MICROPHONE ANGLES IN DEGREES 50	70	80	90	100	110	120	130	140	150	160	POWER 1E-12W
.050	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
.063	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
.080	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
.100	90.3	93.5	95.3	94.6	95.8	95.6	97.0	99.0	100.6	104.8	109.1	124.5
.125	90.6	94.1	94.1	95.0	97.6	97.2	96.1	99.8	103.6	106.8	109.7	122.8
.160	93.9	96.0	94.3	94.6	95.6	96.0	96.9	98.3	103.7	108.6	112.5	123.9
.200	95.7	95.6	96.6	97.3	98.5	99.0	100.5	102.2	106.6	113.4	115.7	127.9
.250	99.6	99.8	99.7	99.2	98.6	99.5	100.6	105.0	110.1	115.0	117.5	129.6
.315	96.6	96.4	97.8	99.1	100.6	101.0	103.4	108.4	112.7	117.8	120.9	132.3
.400	97.8	98.8	99.7	99.9	101.6	103.9	106.6	111.6	116.8	120.7	122.9	135.1
.500	101.5	99.6	99.8	101.1	101.9	104.1	107.1	112.3	116.8	120.2	120.9	136.5
.630	100.1	100.6	102.0	103.3	104.1	105.7	109.1	115.0	119.9	123.2	121.9	137.2
.800	102.1	102.9	102.8	103.8	105.1	106.6	109.3	115.2	120.1	123.5	121.8	137.5
1.00	102.3	103.3	103.7	104.5	106.2	108.6	111.4	116.3	120.1	123.6	123.2	138.6
1.25	102.4	104.3	104.2	105.3	107.3	108.8	112.0	116.3	119.3	122.5	122.2	137.3
1.60	102.6	104.0	104.2	105.2	106.7	109.1	112.5	116.2	118.2	122.4	121.8	137.0
2.00	102.8	103.3	104.3	105.4	107.2	109.6	113.3	116.6	117.8	122.2	121.0	136.7
2.50	102.2	103.2	104.1	105.5	107.5	110.2	114.2	116.2	118.5	122.4	120.8	137.1
3.15	102.2	103.1	104.0	105.8	107.8	110.9	114.7	116.4	119.6	121.8	118.5	137.1
4.00	101.8	103.0	104.1	105.7	108.2	111.6	114.9	116.5	120.8	120.5	115.9	137.1
5.00	101.5	102.5	103.8	105.8	108.2	111.6	114.7	116.4	120.5	118.2	113.3	136.4
6.30	101.4	102.5	103.8	105.9	108.4	111.9	114.7	116.9	119.7	116.5	111.3	135.9
8.00	100.6	102.5	103.8	105.7	108.5	111.9	114.5	116.9	117.6	115.1	109.1	135.1
10.0	99.9	102.2	103.8	105.9	108.4	111.8	114.0	116.3	116.6	114.0	107.7	134.5
12.5	99.1	101.5	103.3	105.5	108.0	111.4	113.3	115.2	115.6	112.6	106.2	133.6
16.0	98.6	101.1	103.1	105.3	108.1	110.9	112.9	114.5	115.0	111.8	105.1	133.0
20.0	97.4	99.9	102.1	104.1	106.9	109.5	111.8	113.0	113.5	110.5	103.7	131.7
25.0	96.3	98.8	101.3	103.7	106.3	109.2	110.5	112.0	112.7	109.6	103.6	130.9
31.5	95.3	98.2	100.7	102.9	105.7	108.3	109.9	111.4	112.2	108.8	102.5	130.2
40.0	94.8	97.7	99.7	102.3	104.7	107.8	108.9	111.0	111.6	108.9	102.6	129.6
50.0	94.2	96.7	99.2	101.2	103.6	107.0	108.8	110.4	111.1	108.5	102.4	129.1
63.0	92.9	95.3	98.0	100.0	103.1	106.1	107.8	109.9	110.8	107.8	101.7	128.5
80.0	92.8	95.0	97.7	99.7	102.7	105.9	108.3	110.5	111.8	108.7	102.7	129.0
100.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
OSPL	114.4	115.7	116.7	118.3	120.5	123.4	126.1	128.7	131.6	133.7	132.6	OAPWL = 149.3

20082F TAPE P7300 NASA VSCE (NAS3-20061) CONFIG. B 15.2049

STAND X206 RIG ID 070530 TEST DATE 02/25/77 SCALE RATIO 12.0/1 RUN NUMBER 2008 CONDITION 8206

				PRIMARY	FAN		PRIMARY	FAN			PRIMARY	FAN		PRIMARY	FAN
TEMP	77.0(F)	25.0(C)	AREA	SQFT	8.640	11.520	SQM	0.803	1.070	MASS FLOW	LB/S	280.8	754.0	KG/S	116.3	205.1
PRES	29.53IN	1.00BAR	P.R.		1.53	2.48		1.53	2.48	THRUST,IDL	LB	11118.0	32989.0	KN	49.455	146.741
WIND D			TEMP	(R)	1417.7	1968.7	(K)	787.6	1093.7	THRUST,MEA	LB		0.0	KN	0.0	
WIND V	0MPH	0.0M/S	RHO	LB/FT3	0.031	0.025	KG/M3	0.504	0.405	AREA (MOD)	SQFT	0.060	0.080	SQM	0.006	0.007
REL H	70.0%		VEL	FPS	1396.7	2349.3	M/S	425.7	716.1	W (MODEL)	LB/S	1.8	3.1	KG/S	0.8	1.4

FAA DAY

1/3 OCTAVE BAND ENGINE JET NOISE DATA 150.0FT RADIUS (SCALED ENGINE)

BAND CENTER FREQ (KHZ)	MICROPHONE ANGLES IN DEGREES 60	70	80	90	100	110	120	130	140	150	160	POWER 1E-12W
.050	101.7	102.2	103.6	104.9	105.7	107.3	110.7	116.6	121.5	124.8	123.5	
.063	103.7	104.5	104.4	105.4	106.7	108.2	110.9	116.8	121.7	125.1	123.4	160.4
.080	103.9	104.9	105.3	106.1	107.8	110.2	113.0	117.9	121.7	125.2	124.8	160.6
.100	104.0	105.9	105.8	106.9	108.9	110.4	113.6	117.9	120.9	124.1	123.8	161.1
.125	104.2	105.6	105.8	106.8	108.3	110.7	114.1	117.8	119.8	124.0	123.4	160.5
.160	104.3	104.8	105.8	106.9	108.7	111.1	114.8	117.5	119.3	123.7	122.5	160.2
.200	103.7	104.7	105.6	107.0	109.0	111.7	115.7	117.7	120.0	123.9	122.3	159.9
.250	103.7	104.6	105.5	107.3	109.3	112.4	116.2	117.9	121.1	123.3	120.0	160.2
.315	103.3	104.5	105.6	107.2	109.7	113.1	116.4	118.0	122.3	122.0	117.4	160.2
.400	103.0	104.0	105.3	107.3	109.7	113.1	116.2	117.9	122.0	119.7	114.8	160.1
.500	102.8	103.9	105.2	107.3	109.8	113.3	116.1	118.3	121.1	117.9	112.7	159.4
.630	102.0	103.9	105.2	107.1	109.9	113.3	115.9	118.3	119.0	116.5	110.5	158.9
.800	101.3	103.6	105.2	107.3	109.8	113.2	115.4	117.7	118.0	115.4	109.1	158.1
1.00	100.4	102.8	104.6	106.8	109.3	112.7	114.6	116.5	116.9	113.9	107.5	157.4
1.25	99.8	102.3	104.3	106.5	109.3	112.1	114.1	115.7	116.2	113.0	106.3	156.5
1.60	98.5	101.0	103.2	105.2	108.0	110.6	112.9	114.1	114.6	111.6	104.8	155.9
2.00	97.4	99.9	102.4	104.8	107.4	110.3	111.6	113.1	113.8	110.7	104.7	154.4
2.50	96.2	99.1	101.6	103.8	106.6	109.2	110.8	112.3	113.1	109.7	103.4	153.5
3.15	95.5	98.4	100.4	103.0	105.4	108.5	109.6	111.7	112.3	109.6	103.3	152.7
4.00	94.7	97.2	99.7	101.7	104.1	107.5	109.3	110.9	111.6	109.0	102.9	151.9
5.00	93.2	95.6	98.3	100.3	103.4	106.4	108.1	110.2	111.1	108.1	102.0	151.1
6.30	92.8	95.0	97.7	99.7	102.7	105.9	108.3	110.5	111.8	108.7	102.7	150.3
8.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	150.5
10.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
												0.0

OAPWL = 171.7

OSPL	115.1	116.5	117.6	119.3	121.6	124.5	127.3	129.9	132.5	134.3	132.5
PNL	123.0	125.2	127.0	129.1	131.5	134.5	136.5	138.7	140.1	139.2	135.6

200. SIDELINE

PNL	119.0	121.9	124.2	126.4	128.7	131.2	132.5	133.4	133.2	130.2	123.1

370. SIDELINE

PNL	113.0	115.9	118.3	120.4	122.8	125.1	126.5	127.3	127.3	124.2	117.1

800. SIDELINE

PNL	104.8	107.8	110.1	112.3	114.6	116.9	118.2	118.8	119.3	116.2	108.9

2128. SIDELINE

PNL	93.5	96.0	98.0	100.1	102.3	104.8	106.5	107.2	107.7	104.9	97.7

20081F TAPE P7301 NASA VSCE (NAS3-20061) CONFIG. B 15.2049

STAND X206 RIG ID 070530 TEST DATE 02/28/77 SCALE RATIO 12.0/1 RUN NUMBER 20081 CONDITION 8207

					PRIMARY	FAN		PRIMARY	FAN			PRIMARY	FAN		PRIMARY	FAN
TEMP	53°F (11.7°C)	AREA	SQFT	0.0	0.0		SQM	0.0	0.0	MASS FLOW	LB/S	0.0	0.0	KG/S	0.0	0.0
PRES	29.80IN 1.01BAR	P.R.		1.52	4.07			1.52	1.99	THRUST,IDL	LB	85.3	723.9	KN	0.379	3.220
WIND D		TEMP	(R)	1426.7	1971.7		(K)	792.6	1095.4	THRUST,MEA	LB		0.0	KN	0.0	
WIND V 0MPH 0.0M/S		RHO	LB/FT3	0.031	0.028		KG/M3	0.500	0.455	AREA (MOD)	SQFT	0.060	0.080	SQM	0.006	0.007
REL H 25%		VEL	FPS	1394.2	2839.4		M/S	424.9	865.4	W (MODEL)	LB/S	2.0	8.2	KG/S	0.9	3.7

1/3 OCTAVE BAND MODEL JET NOISE DATA 15.0FT RADIUS THEORETICAL DAY SPL - (MODEL)

BAND CENTER FREQ (KHZ)	MICROPHONE ANGLES IN DEGREES 60	70	80	90	100	110	120	130	140	150	160	POWER 1E-12W
.050	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
.063	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
.080	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
.100	94.5	97.5	99.5	99.0	99.0	99.7	101.2	103.7	106.9	110.0	115.1	0.0
.125	96.2	98.9	99.6	101.1	101.9	100.9	100.6	104.9	108.9	111.5	115.6	126.7
.160	101.4	102.8	100.7	101.2	100.8	100.5	101.7	103.2	109.5	113.4	118.2	127.9
.200	99.2	97.8	99.1	100.6	101.6	102.3	104.5	106.8	113.6	118.0	120.9	129.4
.250	101.5	100.3	100.7	102.4	103.8	105.1	106.6	110.2	115.7	120.6	123.2	132.5
.315	100.2	100.6	102.4	104.3	105.9	106.6	108.5	113.6	118.2	123.1	126.4	135.0
.400	104.7	104.0	104.0	105.3	107.4	109.2	111.7	116.8	122.1	126.1	129.2	137.7
.500	104.6	104.6	104.6	105.5	106.9	108.6	111.7	117.6	125.0	128.4	126.8	140.7
.630	105.8	105.6	106.5	107.8	108.7	110.0	113.9	120.8	126.4	129.0	127.5	142.0
.800	106.4	106.4	107.4	109.0	110.3	111.0	114.7	121.7	127.6	129.8	127.0	143.1
1.00	107.2	107.3	107.8	109.1	111.1	112.9	116.5	122.9	128.5	129.9	127.3	143.9
1.25	106.7	107.5	108.1	109.3	111.4	113.4	117.4	123.3	128.8	129.5	125.4	144.5
1.60	106.3	107.0	108.0	109.4	111.4	113.6	118.0	123.5	129.3	129.1	123.5	144.5
2.00	107.0	106.9	108.3	109.8	111.6	114.0	119.1	124.3	130.1	127.1	120.8	144.5
2.50	109.5	108.1	108.8	110.4	112.4	115.0	120.1	125.1	129.8	125.0	119.7	144.4
3.15	111.4	111.3	110.4	110.9	112.9	115.8	120.8	125.7	128.6	123.3	117.6	144.2
4.00	110.8	111.8	113.0	112.5	113.6	116.5	121.3	126.2	126.4	121.6	115.9	143.7
5.00	110.0	111.0	112.2	113.7	114.1	116.6	120.9	125.7	125.0	119.9	113.8	143.1
6.30	111.2	110.9	111.8	113.9	115.0	117.1	120.9	124.6	123.9	118.5	112.1	142.3
8.00	111.4	111.7	112.0	113.6	115.2	117.3	120.1	123.3	122.4	116.8	110.4	141.6
10.0	111.0	112.2	112.7	113.9	115.3	117.2	119.8	122.3	121.4	115.8	108.9	140.7
12.5	110.8	111.8	113.0	114.2	115.1	117.1	119.0	121.1	120.1	114.5	107.7	140.1
16.0	110.7	111.9	113.2	114.7	115.3	116.9	118.3	120.4	119.2	113.7	106.9	139.4
20.0	109.8	111.3	112.6	114.1	114.8	115.5	117.4	119.1	117.6	112.6	105.7	138.9
25.0	109.5	110.8	112.3	114.1	114.5	115.6	116.6	118.2	117.3	111.9	105.6	137.9
31.5	109.2	110.5	112.1	113.8	114.2	114.8	116.1	117.3	116.5	111.1	104.8	137.5
40.0	108.7	110.4	111.5	113.4	113.5	114.6	115.1	117.2	116.1	110.9	104.6	136.8
50.0	108.3	109.8	111.5	112.8	113.2	114.3	115.2	116.7	115.8	110.3	104.6	136.4
63.0	107.3	109.1	111.0	112.2	113.1	113.8	114.8	116.2	115.1	110.0	104.1	136.1
80.0	107.2	108.7	110.8	112.2	113.1	113.8	115.3	116.7	115.4	110.4	104.6	135.7
100.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	135.9
												0.0
OSPL	123.0	123.7	124.7	126.1	127.1	128.8	132.0	136.1	139.3	138.8	136.8	OAPWL = 155.7

20081F TAPE P7301 NASA VSCE (NAS3-20061) CONFIG. B 15.2049

STAND X206 RIG ID 070530 TEST DATE 02/28/77 SCALE RATIO 12.0/1 RUN NUMBER 2008 CONDITION 8207

				PRIMARY	FAN		PRIMARY	FAN			PRIMARY	FAN		PRIMARY	FAN
TEMP	77.0(F)	25.0(C)	AREA	SQFT	8.640	11.520	SQM	0.803	1.070	MASS FLOW	LB/S	283.7	1182.2	KG/S	128.7	536.3
PRES	29.80IN	1.01BAR	P.R.		1.52	4.07		1.52	4.07	THRUST,IDL	LB	12282.5	104248.4	KN	54.635	463.718
WIND D			TEMP	(R)	1426.7	1971.7	(K)	792.6	1095.4	THRUST,MEA	LB		0.0	KN	0.0	
WIND V	OMPH	0.0M/S	RHO	LB/FT3	0.031	0.028	KG/M3	0.500	0.455	AREA (MOD)	SQFT	0.060	0.060	SQM	0.006	0.007
REL H	70.0%		VEL	FPS	1394.2	2839.4	M/S	424.9	865.4	W (MODEL)	LB/S	2.0	8.2	KG/S	0.9	3.7

FAA DAY

1/3 OCTAVE BAND ENGINE JET NOISE DATA 150.0FT RADIUS (SCALED ENGINE)

BAND CENTER FREQ (KHZ) — MICROPHONE ANGLES IN DEGREES

	60	70	80	90	100	110	120	130	140	150	160	POWER 1E-12W
.050	107.4	107.2	108.1	109.4	110.3	111.6	115.5	122.4	128.0	130.6	129.1	
.063	108.0	108.0	109.0	110.6	111.9	112.6	116.3	123.3	129.2	131.4	128.6	166.3
.080	108.8	108.9	109.4	110.7	112.7	114.5	118.1	124.5	130.1	131.5	128.9	167.1
.100	108.3	109.1	109.7	110.9	113.0	115.0	119.0	124.9	130.4	131.1	127.0	167.7
.125	107.9	108.6	109.6	111.0	113.0	115.2	119.6	125.1	130.9	130.7	125.1	167.6
.160	108.5	108.4	109.8	111.3	113.1	115.5	120.6	125.8	131.6	128.6	122.3	167.7
.200	111.0	109.6	110.3	111.9	113.9	116.5	121.6	126.6	131.3	126.5	121.2	167.5
.250	112.9	112.8	111.9	112.4	114.4	117.3	122.3	127.2	130.1	124.8	119.1	167.3
.315	112.3	113.3	114.5	114.0	115.1	118.0	122.8	127.7	127.9	123.1	117.4	166.8
.400	111.5	112.5	113.7	115.2	115.6	118.1	122.4	127.2	126.5	121.4	115.3	166.1
.500	112.6	112.3	113.2	115.3	116.4	118.5	122.3	126.0	125.3	119.9	113.5	165.4
.630	112.8	113.1	113.4	115.0	116.6	118.7	121.5	124.7	123.8	118.2	111.8	164.6
.800	112.4	113.6	114.1	115.3	116.7	118.6	121.2	123.7	122.8	117.2	110.3	163.7
1.00	112.1	113.1	114.3	115.5	116.4	118.4	120.3	122.4	121.4	115.8	109.0	163.1
1.25	111.9	113.1	114.4	115.9	116.5	118.1	119.5	121.6	120.4	114.9	108.1	162.3
1.60	110.9	112.4	113.7	115.2	115.9	116.6	118.5	120.2	118.7	113.7	106.8	161.6
2.00	110.6	111.9	113.4	115.2	115.6	116.7	117.7	119.3	118.4	113.0	106.7	160.6
2.50	110.1	111.4	113.0	114.7	115.1	115.7	117.0	118.2	117.4	112.0	105.7	160.1
3.15	109.4	111.1	112.2	114.1	114.2	115.3	115.8	117.9	116.8	111.6	105.3	159.3
4.00	108.8	110.3	112.0	113.3	113.7	114.8	115.7	117.2	116.3	110.8	105.1	158.7
5.00	107.6	109.4	111.3	112.5	113.4	114.1	115.1	116.5	115.4	110.3	104.4	158.2
6.30	107.2	108.7	110.8	112.2	113.1	113.8	115.3	116.7	115.4	110.4	104.6	157.5
8.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	157.4
10.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
												0.0

OSPL	124.0	124.7	125.7	127.1	128.1	129.9	133.2	137.4	140.4	139.3	135.7	OAPWL = 178.2
PNL	134.7	135.9	137.1	138.6	139.3	140.6	142.6	145.4	146.0	142.3	137.1	

200. SIDELINE

PNL	130.6	132.6	134.2	135.9	136.4	137.4	138.6	140.2	139.4	133.4	124.6	

370. SIDELINE

PNL	124.5	126.5	128.2	129.8	130.4	131.3	132.6	134.2	133.6	127.5	118.5	

800. SIDELINE

PNL	116.1	118.0	119.9	121.5	122.1	122.9	124.2	126.3	125.8	119.6	110.4	

2128. SIDELINE

PNL	103.1	105.1	107.0	108.7	109.4	110.2	112.5	115.0	114.8	108.7	99.4	

20082F TAPE P7022 NASA VSCE (NAS3-20061) CONFIG. B 15.2049

STAND X206 RIG ID 705308 TEST DATE 02/25/77 SCALE RATIO 12.0/1 RUN NUMBER 20082 CONDITION 8208

					PRIMARY	FAN			PRIMARY	FAN			PRIMARY	FAN		PRIMARY	FAN
TEMP	54°F (12.2°C)		AREA	SQFT	0.0	0.0		SQM	0.0	0.0							
PRES	29.41IN	1.00BAR	P.R.		1.99	1.30			1.99	1.99	MASS FLOW	LB/S	0.0	0.0	KG/S	0.0	0.0
WIND D			TEMP	(R)	1458.7	1266.7		(K)	810.4	703.7	THRUST,IDL	LB	170.3	94.5	KN	0.757	0.420
WIND V	0MPH	0.0M/S	RHO	LB/FT3	0.033	0.034		KG/M3	0.524	0.542	THRUST,MEA	LB		0.0	KN	0.0	
REL H	2970		VEL	FPS	1780.2	1049.5		M/S	542.6	319.9	AREA (NOD)	SQFT	0.060	0.080	SQM	0.006	0.007
											W (MODEL)	LB/S	3.1	2.9	KG/S	1.4	1.3

1/3 OCTAVE BAND MODEL JET NOISE DATA 15.0FT RADIUS THEORETICAL DAY SPL - (MODEL)

BAND CENTER FREQ (KHZ)	MICROPHONE ANGLES IN DEGREES 60	70	80	90	100	110	120	130	140	150	160	POWER 1E-12W
.050	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
.063	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
.080	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
.100	82.7	86.2	88.1	88.1	87.7	89.0	90.4	92.1	93.6	98.0	102.3	110.6
.125	83.8	87.9	88.1	89.2	90.4	90.9	89.5	93.0	96.8	100.1	103.0	115.6
.160	86.5	89.2	88.3	88.5	87.5	89.1	90.0	91.7	97.1	101.9	105.7	116.1
.200	89.1	88.7	89.7	90.2	91.1	91.8	93.4	95.8	101.3	106.3	109.6	117.2
.250	93.2	91.7	92.5	92.5	91.7	92.5	94.4	98.1	103.9	108.6	110.8	120.9
.315	89.6	90.7	92.1	92.6	93.6	94.4	97.0	101.6	105.9	110.7	114.4	123.6
.400	94.1	94.4	94.5	94.8	95.9	104.4	100.4	105.1	110.4	114.5	118.1	125.5
.500	96.0	96.0	96.3	96.9	96.8	111.0	101.3	105.7	112.9	117.2	116.9	129.5
.630	96.8	96.9	97.4	98.2	98.2	100.4	103.3	109.3	115.3	118.2	117.4	131.6
.800	97.6	97.1	98.1	99.3	99.3	100.9	103.7	110.3	116.6	119.6	118.0	132.2
1.00	97.6	98.6	98.4	99.4	101.0	103.4	106.1	112.4	118.4	119.8	118.1	133.5
1.25	97.6	98.5	99.2	99.9	101.6	103.8	106.7	112.8	119.0	119.6	117.1	134.5
1.60	97.2	98.1	98.5	99.8	100.7	103.4	106.6	112.7	118.5	119.3	116.6	134.6
2.00	96.1	96.6	98.0	99.1	100.9	103.4	107.2	112.3	118.0	118.3	114.6	134.3
2.50	95.2	95.9	97.3	98.9	100.6	103.7	107.5	112.0	116.7	116.5	111.8	133.5
3.15	93.9	94.8	96.5	98.4	100.3	103.4	107.4	111.0	114.9	113.8	107.3	132.3
4.00	93.1	94.3	96.0	98.0	100.1	103.2	107.2	110.0	112.9	109.9	101.9	130.6
5.00	92.6	93.4	95.3	97.2	99.3	102.5	106.3	108.7	110.3	105.7	97.2	128.8
6.30	91.7	92.9	94.6	96.8	98.7	101.7	105.5	107.4	107.7	101.7	92.5	126.8
8.00	90.4	92.0	93.9	96.1	98.2	101.1	104.5	105.5	104.6	98.0	88.5	125.1
10.0	89.4	91.1	93.2	95.4	97.5	100.2	103.4	103.6	102.1	95.2	86.3	123.5
12.5	88.2	89.9	92.0	94.2	96.2	99.0	101.7	101.2	99.2	92.4	84.8	121.9
16.0	87.0	89.0	91.3	93.2	95.1	97.6	99.8	99.5	96.8	91.0	83.5	120.1
20.0	85.4	87.4	89.5	91.7	93.5	95.6	97.6	97.1	94.6	89.2	82.2	118.4
25.0	84.4	86.1	88.5	90.9	92.2	94.7	95.7	95.1	93.1	88.5	82.5	116.4
31.5	83.0	85.1	87.4	89.5	90.9	92.8	94.4	93.5	91.6	87.7	82.0	115.0
40.0	82.1	84.3	86.1	88.6	89.7	92.0	92.5	92.3	90.6	87.7	83.1	113.5
50.0	81.0	83.1	85.2	87.4	88.2	90.5	91.5	91.1	90.1	87.7	84.6	112.3
63.0	79.4	81.4	84.0	85.7	87.1	89.1	90.0	90.0	90.0	88.9	86.8	111.3
80.0	79.2	80.6	83.0	84.5	86.3	88.1	89.6	90.1	90.7	90.9	89.5	110.3
100.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	110.2
												0.0
OSPL	107.7	108.3	109.3	110.6	112.0	116.3	117.8	122.1	127.2	128.4	127.0	OAPWL = 143.6

20082F TAPE P7022 NASA VSCE (NAS3-20061) CONFIG. B 15.2049

STAND X206 RIG ID 705308 TEST DATE 02/25/77 SCALE RATIO 12.0/1 RUN NUMBER 2008 CONDITION 8208

			PRIMARY	FAN		PRIMARY	FAN		PRIMARY	FAN		PRIMARY	FAN
TEMP 77.0(F) 25.0(C)	AREA	SQFT	8.640	11.520	SQM	0.803	1.070	MASS FLOW LB/S	457.9	368.6	KG/S	201.2	189.4
PRES 29.41IN 1.00BAR	P.R.		1.99	1.30		1.99	1.30	THRUST,IDL LB	24519.9	13611.1	KN	109.069	60.545
WIND D	TEMP	(R)	1408.7	1266.7	(K)	810.4	703.7	THRUST,MEA LB		0.0	KN	0.0	
WIND V 0MPH 0.0M/S	RHO	LB/FT3	0.033	0.034	KG/M3	0.524	0.542	AREA (MOD) SQFT	0.060	0.080	SQM	0.006	0.007
REL H 70.0%	VEL	FPS	1780.2	1049.5	M/S	542.6	319.9	W (MODEL) LB/S	3.1	2.9	KG/S	1.4	1.3

FAA DAY

1/3 OCTAVE BAND ENGINE JET NOISE DATA 150.0FT RADIUS (SCALED ENGINE)

BAND CENTER FREQ (KHZ)	MICROPHONE ANGLES IN DEGREES 60	70	80	90	100	110	120	130	140	150	160	POWER 1E-12W
.050	98.4	98.5	99.0	99.8	99.8	102.0	104.9	110.9	116.9	119.8	119.0	
.063	99.2	98.7	99.7	100.9	100.9	102.5	105.3	111.9	118.2	121.2	119.6	155.5
.080	99.2	100.2	100.0	101.0	102.6	105.0	107.7	114.0	120.0	121.4	119.7	156.7
.100	99.2	100.1	100.8	101.5	103.2	105.4	108.3	114.4	120.6	121.2	118.7	157.6
.125	98.8	99.7	100.1	101.4	102.3	105.0	108.2	114.3	120.1	120.9	118.2	157.[illegible]
.160	97.6	98.1	99.5	100.6	102.4	104.9	108.7	113.8	119.5	119.8	116.1	157.4
.200	96.7	97.4	98.8	100.4	102.1	105.2	109.0	113.5	118.2	118.0	113.3	156.6
.250	95.4	96.3	98.0	99.9	101.8	104.9	108.9	112.5	116.4	115.3	108.8	155.4
.315	94.6	95.8	97.5	99.5	101.6	104.7	108.7	111.5	114.4	111.4	103.4	153.7
.400	94.1	94.9	96.8	98.7	100.8	104.0	107.8	110.2	111.8	107.2	98.7	151.9
.500	93.1	94.3	96.0	98.2	100.1	103.1	106.9	108.8	109.1	103.1	93.9	149.9
.630	91.8	93.4	95.3	97.5	99.6	102.5	105.9	106.9	106.0	99.4	89.9	148.2
.800	90.8	92.5	94.6	96.8	98.9	101.6	104.8	105.0	103.5	96.6	87.7	146.5
1.00	89.5	91.2	93.3	95.5	97.5	100.3	103.0	102.5	100.5	93.7	86.1	144.9
1.25	88.2	90.2	92.5	94.4	96.3	98.8	101.0	100.7	98.0	92.2	84.7	143.0
1.60	86.5	88.5	90.6	92.8	94.6	96.7	98.7	98.2	95.7	90.3	83.3	141.3
2.00	85.5	87.2	89.6	92.0	93.3	95.8	96.8	96.2	94.2	89.6	83.6	139.1
2.50	83.9	86.0	88.3	90.4	91.8	93.7	95.3	94.4	92.5	88.6	82.9	137.6
3.15	82.8	85.0	86.8	89.3	90.4	92.7	93.2	93.0	91.3	88.4	83.8	136.0
4.00	81.5	83.[illegible]	85.7	87.9	88.7	91.0	92.0	91.6	90.6	88.2	85.1	134.6
5.00	79.7	81.7	84.3	86.0	87.4	89.4	90.3	90.3	90.3	89.2	87.1	133.3
6.30	79.2	80.6	83.0	84.5	86.3	88.1	89.6	90.1	90.7	90.9	89.5	132.1
8.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	131.7
10.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.0
												6.6

OAPWL = 166.1

OSPL	108.2	109.0	110.0	111.5	113.0	115.7	119.0	123.4	128.4	129.2	126.8	
PNL	112.8	114.2	116.0	117.9	119.4	122.0	124.9	127.3	130.2	129.1	125.2	
				200. SIDELINE								
PNL	108.9	111.0	113.2	115.3	116.7	118.8	121.0	122.3	123.7	120.3	113.0	
				370. SIDELINE								
PNL	103.2	105.1	107.4	109.4	110.9	113.1	115.4	116.7	118.0	114.6	107.2	
				800. SIDELINE								
PNL	95.5	97.5	99.7	101.7	103.3	105.5	107.8	109.2	110.6	107.2	99.6	
				2128. SIDELINE								
PNL	84.4	86.6	88.8	90.8	92.4	94.7	97.0	98.8	100.5	97.1	89.3	

STAND X206 RIG ID 705308 TEST DATE 02/25/77 SCALE RATIO 12.0/1 RUN NUMBER 20082 CONDITION 8209

TEMP 55°F 12.8°C
PRES 29.41IN 1.00BAR
WIND D
WIND V GMPH 0.0M/S
REL H 29 %

		PRIMARY	FAN		PRIMARY	FAN
AREA	SQFT	0.0	0.0	SQM	0.0	0.0
P.R.		2.00	1.79		2.00	1.79
TEMP	(R)	1462.7	1257.7	(K)	812.6	698.7
RHO	LB/FT3	0.033	0.037	KG/M3	0.522	0.593
VEL	FPS	1784.1	1523.6	M/S	543.8	464.4

		PRIMARY	FAN		PRIMARY	FAN
MASS FLOW	LB/S	0.0	0.0	KG/S	0.0	0.0
THRUST,IDL	LB	166.8	225.7	KN	0.742	1.004
THRUST,MEA	LB		0.0	KN	0.0	
AREA (MOD)	SQFT	0.060	0.080	SQM	0.006	0.007
W (MODEL)	LB/S	3.0	4.8	KG/S	1.4	2.2

1/3 OCTAVE BAND MODEL JET NOISE DATA 15.0FT RADIUS THEORETICAL DAY SPL - (MODEL)

BAND CENTER FREQ (KHZ)	MICROPHONE ANGLES IN DEGREES 60	70	80	90	100	110	120	130	140	150	160	POWER 1E-12W
.050	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
.063	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
.080	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
.100	86.5	89.9	92.0	91.5	91.8	92.3	93.4	95.2	96.6	101.2	105.8	110.0
.125	87.3	91.2	91.4	92.5	93.6	93.6	92.5	95.9	99.6	103.0	106.3	111.2
.160	90.3	92.6	91.7	92.0	91.4	92.4	92.9	94.8	100.0	104.9	109.1	113.4
.200	92.0	92.0	93.3	93.8	94.6	95.3	96.5	98.7	104.1	109.5	112.0	116.4
.250	96.1	95.0	95.9	96.0	95.4	95.8	97.1	100.9	106.6	111.3	113.9	118.0
.315	92.4	93.8	95.2	96.1	97.4	97.5	99.6	104.5	108.6	113.7	117.2	121.9
.400	96.9	97.1	97.4	97.7	99.0	107.4	102.8	107.8	113.1	117.3	120.6	125.4
.500	97.9	98.3	98.7	99.5	99.2	113.0	103.8	108.7	115.5	119.9	119.1	128.2
.630	98.8	98.9	99.8	100.6	100.9	103.1	106.0	112.2	117.9	120.8	119.2	130.1
.800	99.1	99.2	100.6	101.7	102.0	103.5	106.5	113.3	119.2	122.0	119.9	130.8
1.00	99.9	100.8	101.1	102.1	103.8	105.9	108.6	114.9	120.7	122.2	120.0	132.0
1.25	100.2	100.9	102.1	102.6	104.3	106.2	109.0	115.1	121.0	121.9	119.3	132.8
1.60	100.0	100.8	101.6	102.5	103.6	106.1	109.1	114.5	120.4	121.8	119.0	132.6
2.00	99.5	99.6	101.0	102.1	103.5	106.0	109.6	114.2	119.3	120.4	117.4	132.5
2.50	98.3	98.9	100.8	102.2	103.5	106.1	109.7	113.7	117.9	118.6	115.7	131.4
3.15	97.2	98.3	100.0	101.8	103.2	106.0	109.5	112.8	115.8	115.4	112.5	130.1
4.00	96.7	97.7	99.8	101.4	103.2	105.9	109.5	111.9	113.9	112.2	109.4	128.2
5.00	96.1	96.9	98.8	100.7	102.4	105.5	108.3	110.5	111.3	109.4	107.0	126.8
6.30	95.6	96.5	98.5	100.6	102.2	104.8	107.7	109.1	109.1	107.1	104.4	125.0
8.00	94.2	95.8	97.9	100.0	101.6	104.2	106.8	107.5	106.7	105.1	102.2	123.6
10.0	93.2	94.9	97.3	99.3	100.9	103.5	105.6	106.0	104.8	103.3	100.3	122.3
12.5	92.5	93.9	96.3	98.5	100.0	102.6	104.4	103.9	102.8	101.3	97.8	120.9
16.0	91.3	93.1	95.7	97.6	99.2	101.5	103.1	102.7	101.2	99.4	95.8	119.6
20.0	89.5	91.4	94.0	96.0	97.7	99.6	101.0	100.6	99.2	97.0	93.3	118.4
25.0	88.5	90.0	93.0	95.2	96.5	99.1	99.4	98.8	97.6	95.7	92.6	117.4
31.5	86.9	89.0	91.7	94.0	95.4	97.1	98.3	97.4	96.2	94.3	91.3	116.2
40.0	85.9	88.1	90.3	93.0	94.0	96.4	96.5	96.4	95.2	93.7	91.5	115.3
50.0	84.7	86.8	89.5	91.8	92.8	95.1	95.7	94.9	94.3	93.0	91.7	114.6
63.0	83.3	85.2	88.1	90.1	91.8	93.7	94.1	93.6	93.5	93.0	92.4	114.1
80.0	83.2	84.6	87.6	89.4	91.1	92.8	93.9	93.4	93.9	94.1	94.1	114.4
100.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	114.3
												0.0
OSPL	110.5	111.2	112.5	113.8	115.1	118.9	120.2	124.3	129.1	130.8	129.5	OAPWL = 145.9

20082F TAPE P7022 NASA VSCE (NAS3-20061) CONFIG. B

15.2049

STAND X206 RIG ID 705308 TEST DATE 02/25/77 SCALE RATIO 12.0/1 RUN NUMBER 2008 CONDITION 8209

					PRIMARY	FAN		PRIMARY	FAN			PRIMARY	FAN			PRIMARY	FAN
TEMP	77.0(F)	25.0(C)	AREA	SQFT	8.640	11.520	SQM	0.803	1.070	MASS FLOW	LB/S	445.0	632.2	KG/S	196.6	311.6
PRES	29.411N	1.GOBAR	P.R.		2.00	1.79		2.00	1.79	THRUST,IDL	LB	24014.9	32500.7	KN	106.823	144.570
WIND D			TEMP	(R)	1462.7	1257.7	(K)	812.6	698.7	THRUST,MEA	LB		0.0	KN	0.0	
WIND V	0MPH	0.0M/S	RHO	LB/FT3	0.033	0.037	KG/M3	0.522	0.593	AREA (MOD)	SQFT	0.060	0.080	SQM	0.006	0.007
REL H	70.0%		VEL	FPS	1784.1	1523.6	M/S	543.8	464.4	W (MODEL)	LB/S	3.0	4.8	KG/S	1.4	2.7

FAA DAY

1/3 OCTAVE BAND ENGINE JET NOISE DATA 150.0FT RADIUS (SCALED ENGINE)

BAND CENTER FREQ (KHZ) — MICROPHONE ANGLES IN DEGREES

	60	70	80	90	100	110	120	130	140	150	160	POWER LE-12W
.050	100.4	100.5	101.4	102.2	102.5	104.7	107.6	113.8	119.5	122.4	120.8	
.063	100.7	100.8	102.2	103.3	103.6	105.1	108.1	114.9	120.8	123.6	121.5	158.0
.080	101.5	102.4	102.7	103.7	105.4	107.5	110.2	116.5	122.3	123.8	121.6	159.1
.100	101.8	102.5	103.7	104.2	105.9	107.8	110.6	116.7	122.6	123.5	120.9	160.0
.125	101.6	102.4	103.2	104.1	105.2	107.7	110.7	116.1	122.0	123.4	120.6	160.6
.160	101.0	101.1	102.5	103.6	105.0	107.5	111.1	115.7	120.8	121.9	118.9	159.6
.200	99.8	100.4	102.3	103.7	105.0	107.6	111.2	115.2	119.4	120.1	117.2	158.5
.250	98.7	99.8	101.5	103.3	104.7	107.5	111.0	114.3	117.3	116.9	114.0	157.5
.315	98.2	99.2	101.3	102.9	104.7	107.4	111.0	113.4	115.4	113.7	110.9	155.3
.400	97.6	98.4	100.3	102.2	103.9	107.0	109.8	112.0	112.8	110.9	108.5	153.8
.500	97.0	97.9	99.9	102.0	103.6	106.2	108.1	110.5	110.5	108.5	105.8	152.1
.630	95.6	97.2	99.3	101.4	103.6	105.6	108.2	108.9	108.1	106.5	103.6	150.7
.800	94.6	96.3	98.7	100.7	102.3	104.9	107.6	107.4	106.2	104.7	101.7	149.3
1.00	93.8	95.2	97.6	99.8	101.3	103.9	105.7	105.2	104.1	102.6	99.1	148.0
1.25	92.5	94.3	96.9	98.8	100.4	102.7	104.3	103.9	102.4	100.6	97.0	146.5
1.60	90.6	92.5	95.1	97.1	98.8	100.7	102.1	101.7	100.3	98.1	94.4	145.2
2.00	89.6	91.1	94.1	96.3	97.6	100.2	100.5	99.9	98.7	96.8	93.7	143.7
2.50	87.8	89.9	92.6	94.9	96.3	98.6	99.2	98.3	97.1	95.2	92.2	141.9
3.15	86.6	88.8	91.0	93.7	94.7	97.1	97.2	97.1	95.9	94.4	92.2	140.3
4.00	85.2	87.3	90.0	92.3	93.3	95.6	96.2	95.4	94.8	93.5	92.2	138.9
5.00	83.6	85.5	88.4	90.4	92.1	94.0	94.4	93.9	93.8	93.3	92.7	137.6
6.30	83.2	84.6	87.6	89.4	91.1	92.8	93.9	93.4	93.9	94.1	94.1	136.3
8.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	135.6
10.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
												0.0

OSPL	111.1	111.8	113.3	114.7	116.1	118.5	121.4	125.5	130.3	131.6	129.2	OAPWL = 168.3
PNL	116.3	117.7	119.9	121.9	123.3	125.5	127.6	129.7	132.2	132.4	129.8	

200. SIDELINE

PNL 112.4 114.5 117.2 119.2 120.5 122.3 123.7 124.7 125.7 123.6 117.4

370. SIDELINE

PNL 106.6 108.6 111.3 113.4 114.6 116.5 118.0 119.0 120.0 117.8 111.5

800. SIDELINE

PNL 99.0 100.9 103.4 105.4 106.7 108.8 110.5 111.5 112.5 110.3 103.8

2128. SIDELINE

PNL 88.0 90.0 92.5 94.5 95.8 97.9 99.6 101.0 102.3 100.1 93.0

5.1B-18

ORIGINAL PAGE IS OF POOR QUALITY

20082F TAPE P7022 NASA VSCE (NAS3-20061) CONFIG. B 15.2049

STAND X206 RIG ID 705308 TEST DATE 02/25/77 SCALE RATIO 12.0/1 RUN NUMBER 20082 CONDITION 8210

		PRIMARY	FAN			PRIMARY	FAN			PRIMARY	FAN			PRIMARY	FAN
TEMP 56°F 13.3°C	AREA SQFT	0.0	0.0	SQM	0.0	0.0		MASS FLOW LB/S	0.0	0.0	KG/S	0.0	0.0
PRES 29.41IN 1.00BAR	P.R.		2.00	2.49		2.00	2.49	THRUST,IDL LB	158.2	380.7	KN	0.703	1.693
WIND D	TEMP	(R)	1462.7	1268.7	(K)	812.6	704.8	THRUST,MEA LB		0.0	KN	0.0	
WIND V OMPH 0.0M/S	RHO	LB/FT3	0.033	0.040	KG/M3	0.523	0.641	AREA (MOD) SQFT	0.060	0.080	SQM	0.006	0.007
REL H 28 %	VEL	FPS	1786.9	1880.2	M/S	544.6	573.1	W (MODEL) LB/S	2.9	6.5	KG/S	1.3	3.0

1/3 OCTAVE BAND MODEL JET NOISE DATA 15.0FT RADIUS THEORETICAL DAY SPL - (MODEL)

BAND CENTER FREQ (KHZ)	MICROPHONE ANGLES IN DEGREES 60	70	80	90	100	110	120	130	140	150	160	POWER 1E-12W
.050	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
.063	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
.080	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
.100	90.5	94.2	95.9	95.2	95.6	96.2	96.9	99.1	100.0	104.9	109.6	6.6
.125	91.3	95.1	95.1	96.1	97.1	96.9	96.0	98.6	102.4	105.8	109.6	121.7
.160	93.8	96.1	94.9	95.1	94.8	95.4	96.1	97.4	102.6	107.8	112.2	122.3
.200	95.5	95.2	96.9	97.4	97.8	98.5	99.8	101.5	107.4	112.5	115.5	123.4
.250	99.8	98.7	99.4	99.3	99.4	99.1	100.4	103.7	109.6	114.5	116.9	127.2
.315	95.4	96.8	98.5	99.2	101.4	100.8	102.8	107.3	111.3	116.6	120.4	129.0
.400	99.8	99.8	100.7	101.1	102.3	111.2	105.9	110.4	116.1	120.3	123.6	131.4
.500	101.0	100.9	101.2	102.0	102.0	115.9	106.8	111.4	118.6	123.0	122.2	133.3
.630	101.6	102.0	102.7	103.6	103.6	105.7	108.7	114.9	120.7	123.9	122.1	137.1
.800	102.3	102.4	103.5	104.8	105.1	106.3	109.2	115.8	121.8	124.9	123.2	137.5
1.00	103.1	104.7	104.4	105.0	106.4	108.9	111.3	117.6	123.2	125.2	123.5	136.8
1.25	104.2	104.1	105.3	105.7	107.0	108.9	111.9	116.9	123.4	125.2	123.0	139.6
1.60	103.8	104.4	105.1	105.9	106.6	109.0	112.0	116.6	122.7	125.6	123.5	139.7
2.00	104.1	103.8	105.0	105.7	106.8	109.1	112.5	116.3	122.0	124.8	122.5	139.6
2.50	103.0	103.4	104.7	105.9	106.8	109.5	112.9	116.2	121.0	124.1	121.6	138.9
3.15	102.4	102.8	104.2	105.5	106.6	109.4	113.0	115.5	120.0	122.9	119.9	138.3
4.00	101.7	102.6	103.9	105.3	106.7	109.6	112.9	115.1	119.3	121.3	117.6	137.3
5.00	101.6	101.9	103.4	104.8	106.4	109.3	112.4	114.1	118.2	119.4	115.6	136.4
6.30	101.5	102.0	103.4	104.8	106.3	108.9	112.1	113.6	117.6	118.0	113.7	135.1
8.00	100.0	101.5	103.2	104.5	106.1	108.7	111.5	112.8	116.3	116.4	111.5	134.3
10.0	99.4	100.9	103.0	104.5	105.9	108.3	111.1	111.9	115.0	115.3	110.2	133.3
12.5	98.2	100.2	102.2	103.7	105.1	107.6	110.2	110.6	113.3	113.4	108.5	132.4
16.0	97.5	99.8	101.9	103.3	104.8	107.3	109.2	109.9	112.1	112.5	107.2	131.1
20.0	95.7	98.2	100.5	101.9	103.5	105.6	107.9	108.1	110.5	111.0	105.4	130.2
25.0	94.8	97.2	99.6	101.7	102.9	105.4	106.5	106.7	109.7	110.3	105.0	128.7
31.5	93.5	96.4	98.9	100.8	102.0	104.0	105.9	105.7	108.9	109.2	104.1	127.9
40.0	92.8	95.6	98.0	100.6	101.0	103.8	104.5	105.2	108.2	108.9	103.8	126.9
50.0	92.0	94.6	97.3	99.2	100.0	102.7	103.9	104.3	107.6	108.5	103.5	126.2
63.0	90.6	93.4	96.2	97.9	99.1	101.6	102.8	103.5	107.1	108.1	103.1	125.6
80.0	90.4	92.7	95.7	97.2	98.9	100.8	102.7	103.3	107.4	108.5	104.0	124.8
100.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	124.9
												0.0
OSPL	114.7	115.4	116.7	117.8	118.9	122.6	124.1	127.3	132.5	135.1	133.5	OAPWL = 149.7

20082F TAPE P7022 NASA VSCE (NAS3-20061) CONFIG. B

STAND X206 RIG ID 705308 TEST DATE 02/25/77 SCALE RATIO 12.0/1 RUN NUMBER 2008 CONDITION 8210 15.2049

				PRIMARY	FAN		PRIMARY	FAN		PRIMARY	FAN		PRIMARY	FAN
TEMP	77.0(F)	25.0(C)	AREA SQFT	8.640	11.520	SQM	0.803	1.070	MASS FLOW LB/S	421.9	944.6	KG/S	186.2	425.9
PRES	29.41IN	1.00BAR	P.R.		2.00			2.00	2.49	THRUST,IDL LB	22774.1	54821.3	KN	101.304	243.856
WIND D			TEMP (R)	1462.7	1268.7	(K)	812.6	704.8	THRUST,MEA LB		0.0	KN	0.0	
WIND V	0MPH	0.0M/S	RHO LB/FT3	0.033	0.040	KG/M3	0.523	0.641	AREA (MOD) SQFT	0.060	0.080	SQM	0.006	0.007
REL H	70.0%		VEL FPS	1786.9	1880.2	M/S	544.6	573.1	W (MODEL) LB/S	2.9	6.5	KG/S	1.3	3.0

FAA DAY

1/3 OCTAVE BAND ENGINE JET NOISE DATA 150.0FT RADIUS (SCALED ENGINE)

BAND CENTER FREQ (KHZ)	MICROPHONE ANGLES IN DEGREES 60	70	80	90	100	110	120	130	140	150	160	POWER 1E-12W
.050	103.2	103.6	104.3	105.2	105.2	107.3	110.3	116.5	122.3	125.5	123.7	160.9
.063	103.9	104.0	105.1	106.4	106.7	107.9	110.8	117.4	123.4	126.5	124.8	161.9
.080	104.7	105.7	106.8	106.6	108.0	110.5	112.9	118.6	124.8	126.8	125.1	162.8
.100	105.8	105.7	106.9	107.3	108.6	110.5	113.5	118.5	125.0	126.6	124.6	162.8
.125	105.4	106.0	106.7	107.5	108.2	110.6	113.6	118.2	124.3	127.2	125.1	162.8
.160	105.6	105.3	106.5	107.2	108.3	110.6	114.0	117.8	123.5	126.3	124.0	162.8
.200	104.5	104.9	106.2	107.4	108.3	111.0	114.4	117.7	122.5	125.6	123.1	162.6
.250	103.9	104.3	105.7	107.0	108.1	110.9	114.5	117.0	121.5	124.4	121.4	161.4
.315	103.2	104.1	105.4	106.8	108.2	111.1	114.4	116.6	120.8	122.8	119.1	160.4
.400	103.1	103.4	104.9	106.3	107.9	110.8	113.9	115.6	119.7	120.9	117.1	159.4
.500	102.9	103.4	104.8	106.2	107.7	110.3	113.5	115.0	119.0	119.4	115.1	158.2
.630	101.4	102.9	104.6	105.9	107.5	110.1	112.9	114.2	117.7	117.8	112.9	157.3
.800	100.8	102.3	104.4	105.9	107.3	109.7	112.5	113.3	116.4	116.7	111.6	156.3
1.00	99.5	101.5	103.5	105.0	106.4	109.1	111.5	111.9	114.6	114.7	109.8	155.3
1.25	98.7	101.0	103.1	104.5	106.0	108.5	110.4	111.1	113.3	113.7	108.4	154.0
1.60	96.8	99.3	101.6	103.0	104.6	106.7	109.0	109.2	111.6	112.1	106.5	153.0
2.00	95.9	98.3	100.9	102.8	104.0	106.5	107.6	107.8	110.8	111.4	106.1	151.4
2.50	94.4	97.3	99.8	101.7	102.9	104.9	106.8	106.6	109.8	110.1	105.0	150.5
3.15	93.5	96.3	98.7	100.7	101.7	104.5	105.2	105.9	108.9	109.6	104.5	149.3
4.00	92.5	95.1	97.8	99.7	100.5	103.2	104.4	104.8	108.1	109.0	104.0	148.5
5.00	90.9	93.7	96.5	98.2	99.4	101.9	103.1	103.8	107.4	108.4	103.4	147.6
6.30	90.4	92.7	95.7	97.2	98.9	100.8	102.7	103.3	107.4	108.5	104.0	146.7
8.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	146.4
10.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
												0.0
OSPL	115.5	116.2	117.6	118.7	119.9	122.4	125.2	128.4	133.7	136.0	133.6	OAPWL = 172.2
PNL	122.1	123.9	125.9	127.5	128.7	131.2	133.3	134.7	138.6	140.3	136.9	

200. SIDELINE

PNL 118.1 120.7 123.1 124.8 125.9 127.9 129.3 129.5 131.9 131.4 124.4

370. SIDELINE

PNL 112.2 114.8 117.2 118.9 120.0 121.9 123.3 123.6 126.1 125.4 118.3

800. SIDELINE

PNL 104.5 106.7 109.2 110.9 111.9 113.8 115.2 115.9 118.2 117.5 110.2

2128. SIDELINE

PNL 93.4 95.3 97.6 99.1 100.3 102.3 104.1 104.8 107.2 106.4 98.9

STAND X206 RIG ID 705308 TEST DATE 02/25/77 SCALE RATIO 12.0/1 RUN NUMBER 20082 CONDITION 8211

			PRIMARY	FAN		PRIMARY	FAN			PRIMARY	FAN		PRIMARY	FAN
TEMP 57°F 13.9°C	AREA	SQFT	0.0	0.0	SQM	0.0	0.0	MASS FLOW	LB/S	0.0	0.0	KG/S	0.0	0.0
PRES 29.41IN 1.00BAR	P.R.		1.99	3.16		1.99	3.16	THRUST,IDL	LB	157.3	533.4	KN	0.700	2.373
WIND D	TEMP	(R)	1462.7	1261.7	(K)	812.6	700.9	THRUST,MEA	LB		0.0	KN	0.0	
WIND V OMPH 0.0M/S	RHO	LB/FT3	0.033	0.043	KG/M3	0.522	0.686	AREA (MOD)	SQFT	0.060	0.080	SQM	0.006	0.007
REL H 29 %	VEL	FPS	1777.4	2074.5	M/S	541.7	632.3	W (MODEL)	LB/S	2.9	8.3	KG/S	1.3	3.8

1/3 OCTAVE BAND MODEL JET NOISE DATA 15.0FT RADIUS THEORETICAL DAY SPL - (MODEL)

BAND CENTER FREQ (KHZ)	MICROPHONE ANGLES IN DEGREES 60	70	80	90	100	110	120	130	140	150	160	POWER 1E-12W
.050	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
.063	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
.080	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
.100	93.0	96.6	98.1	97.5	101.9	98.6	99.1	100.1	101.9	106.9	111.9	124.1
.125	93.9	97.2	97.3	98.3	101.1	99.2	98.4	100.8	104.4	108.3	112.2	124.8
.160	96.8	98.6	97.3	97.8	99.2	97.9	98.7	99.5	104.5	110.0	114.7	125.8
.200	98.0	97.7	99.4	99.6	100.8	101.2	102.7	103.5	109.3	114.8	117.9	129.5
.250	102.1	101.5	102.2	101.9	102.4	102.1	102.8	105.7	111.4	116.6	119.7	131.4
.315	97.6	99.0	100.7	101.8	103.9	103.3	105.0	108.8	113.3	118.9	122.8	133.7
.400	101.6	101.7	102.6	103.1	104.6	114.3	108.2	112.0	117.9	122.3	125.9	137.4
.500	103.1	102.8	102.9	103.5	103.9	116.3	108.6	113.1	120.4	125.1	124.7	139.3
.630	103.3	104.0	104.9	105.5	105.5	107.7	110.4	116.1	122.5	126.0	124.7	139.8
.800	104.2	104.5	105.7	106.4	107.0	108.3	110.6	116.9	123.4	127.0	125.7	140.7
1.00	104.6	105.8	106.2	106.5	108.2	110.8	112.8	118.1	124.5	127.6	126.2	141.5
1.25	105.5	105.8	106.8	107.1	108.8	110.7	113.4	118.0	124.8	127.6	125.2	141.5
1.60	104.8	105.8	106.6	107.1	108.1	110.7	113.5	117.8	124.3	127.9	125.1	141.5
2.00	105.1	105.2	106.4	106.9	108.2	110.6	113.9	117.7	124.1	127.2	123.6	141.5
2.50	105.5	105.1	106.2	107.1	108.3	111.0	114.6	117.7	123.8	126.2	121.9	140.9
3.15	106.0	106.4	106.7	107.0	108.3	111.2	114.8	117.5	123.5	124.4	119.6	140.3
4.00	105.7	106.8	108.0	108.0	108.6	111.6	114.9	117.4	123.4	122.5	117.2	139.5
5.00	105.0	105.9	107.3	108.0	108.8	111.5	114.5	116.7	122.2	120.7	115.4	138.8
6.30	105.0	105.6	106.9	108.0	109.0	111.4	114.4	116.6	121.2	119.3	113.0	137.8
8.00	104.3	105.5	106.7	107.4	108.7	111.4	114.2	116.1	119.4	117.8	111.1	136.9
10.0	104.4	105.7	107.0	107.5	108.7	111.3	113.9	115.6	118.5	116.8	109.9	135.9
12.5	103.7	105.6	107.1	107.5	108.4	110.8	113.3	114.6	117.1	115.2	108.4	135.2
16.0	103.2	105.2	107.3	107.6	108.5	110.6	112.7	113.8	116.3	114.2	107.6	134.4
20.0	102.4	104.2	106.2	106.8	107.7	109.5	111.5	112.3	115.1	113.0	106.1	133.8
25.0	101.3	103.5	106.0	107.1	107.4	109.6	110.5	111.4	114.3	112.2	105.8	132.6
31.5	100.3	103.1	105.6	106.6	107.3	108.7	110.4	110.7	113.6	111.5	104.8	132.1
40.0	99.9	102.7	104.8	106.6	106.6	108.6	109.4	110.5	113.4	111.5	104.8	131.4
50.0	99.2	101.6	104.5	105.8	106.0	107.9	109.2	109.9	113.0	110.7	104.4	131.1
63.0	98.1	100.6	103.6	104.9	105.7	107.2	108.3	109.3	112.7	110.6	104.2	130.6
80.0	98.6	100.1	103.3	104.4	105.3	107.0	108.6	109.7	113.3	111.2	105.0	130.1
100.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	130.3
												0.0
OSPL	117.7	118.7	120.1	120.7	121.7	125.2	126.4	129.4	135.0	137.2	135.4	OAPWL = 151.9

STAND X206 RIG ID 705308 TEST DATE 02/25/77 SCALE RATIO 12.0/1 RUN NUMBER 2008 CONDITION 8211

				PRIMARY	FAN		PRIMARY	FAN			PRIMARY	FAN		PRIMARY	FAN
TEMP	77.0(F)	25.0(C)	AREA SQFT	8.640	11.520	SQM	0.803	1.070	MASS FLOW	LB/S	433.4	1209.6	KG/S	196.2	540.8
PRES	29.41IN	1.00BAR	P.R.	1.99	3.16		1.99	3.16	THRUST,IDL	LB	22653.5	76815.9	KN	100.767	341.692
WIND D			TEMP (R)	1462.7	1261.7	(K)	812.6	700.9	THRUST,MEA	LB		0.0	KN	0.0	
WIND V	0MPH	0.0M/S	RHO LB/FT3	0.033	0.043	KG/M3	0.522	0.686	AREA (MOD)	SQFT	0.060	0.080	SQM	0.006	0.007
REL H	70.0%		VEL FPS	1777.4	2074.5	M/S	541.7	632.3	W (MODEL)	LB/S	2.9	8.3	KG/S	1.3	3.8

FAA DAY 1/3 OCTAVE BAND ENGINE JET NOISE DATA 150.0FT RADIUS (SCALED ENGINE)

BAND CENTER FREQ (KHZ)	MICROPHONE ANGLES IN DEGREES 60	70	80	90	100	110	120	130	140	150	160	POWER IE-12W
.050	104.9	105.6	106.5	107.1	107.1	109.3	112.0	117.7	124.1	127.6	126.3	162.9
.063	105.8	106.1	107.3	108.0	108.6	109.9	112.2	118.5	125.0	128.6	127.3	163.9
.080	106.2	107.4	107.8	108.1	109.8	112.4	114.4	119.7	126.1	129.2	127.8	164.7
.100	107.1	107.4	108.4	108.7	110.4	112.3	115.0	119.6	126.4	129.2	126.8	164.7
.125	106.4	107.4	108.2	108.7	109.7	112.3	115.1	119.4	125.9	129.5	126.7	164.7
.160	106.6	106.7	107.9	108.4	109.7	112.1	115.4	119.2	125.6	128.7	125.1	164.0
.200	107.0	106.6	107.7	108.6	109.8	112.5	116.1	119.2	125.3	127.7	123.4	163.4
.250	107.5	107.9	108.2	108.5	109.8	112.7	116.3	119.0	125.0	125.9	121.1	162.6
.315	107.2	108.3	109.5	109.5	110.1	113.1	116.4	118.9	124.9	124.0	118.7	161.9
.400	106.5	107.4	108.8	109.5	110.3	113.0	116.0	118.2	123.7	122.2	116.9	160.8
.500	106.4	107.0	108.3	109.4	110.4	112.6	115.8	118.0	122.6	120.7	114.4	160.0
.630	105.7	106.9	108.1	108.8	110.1	112.8	115.6	117.5	120.8	119.2	112.5	159.9
.800	105.8	107.1	108.4	108.9	110.1	112.7	115.3	117.0	119.9	118.2	111.3	158.3
1.00	105.0	106.9	108.4	108.8	109.7	112.1	114.6	115.9	118.4	116.5	109.7	157.3
1.25	104.4	106.4	108.5	108.8	109.7	111.8	113.9	115.0	117.5	115.4	108.8	156.6
1.60	103.2	105.3	107.3	107.9	108.8	110.6	112.6	113.4	116.2	114.1	107.2	155.3
2.00	102.4	104.6	107.1	108.2	108.5	110.7	111.6	112.5	115.4	113.3	106.9	154.7
2.50	101.2	104.0	106.5	107.5	108.2	109.6	111.3	111.6	114.5	112.4	105.7	153.9
3.15	100.6	103.4	105.5	107.3	107.3	109.3	110.1	111.2	114.1	112.2	105.5	153.4
4.00	99.7	102.1	105.0	106.3	106.5	108.4	109.7	110.4	113.5	111.2	104.9	152.6
5.00	98.4	100.9	103.9	105.2	106.0	107.5	108.6	109.6	113.0	110.9	104.5	151.9
6.30	98.0	100.1	103.3	104.4	105.3	107.0	108.6	109.7	113.3	111.2	105.0	151.8
8.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

OAPWL = 174.4

OSPL	118.6	119.6	121.0	121.6	122.6	124.9	127.5	130.5	136.1	138.1	135.3	
PNL	127.4	129.3	131.2	132.4	132.9	135.0	136.9	138.6	142.5	142.3	137.6	
				200. SIDELINE								
PNL	123.4	126.1	128.4	129.7	130.1	131.7	132.8	133.3	135.7	133.4	125.1	
				370. SIDELINE								
PNL	117.3	120.0	122.5	123.6	124.1	125.7	126.8	127.2	129.8	127.4	119.1	
				800. SIDELINE								
PNL	109.0	111.8	114.3	115.3	115.9	117.3	118.5	118.9	121.8	119.5	111.0	
				2128. SIDELINE								
PNL	97.3	99.5	101.7	102.7	103.3	105.1	106.6	107.5	110.5	108.4	99.9	

STAND X206 RIG ID 070530 TEST DATE 02/28/77 SCALE RATIO 12.0/1 RUN NUMBER 20081 CONDITION 8212

			PRIMARY	FAN		PRIMARY	FAN			PRIMARY	FAN		PRIMARY	FAN
TEMP 56°F 13.3°C	AREA	SQFT	0.0	0.0	SQM	0.0	0.0	MASS FLOW	LB/S	0.0	0.0	KG/S	0.0	0.0
PRES 29.80IN 1.01BAR	P.R.		1.99	1.78		1.99	1.78	THRUST,IDL	LB	169.3	204.3	KN	0.753	0.909
WIND D	TEMP	(R)	1424.7	1946.7	(K)	791.5	1081.5	THRUST,MEA	LB		0.0	KN	0.0	
WIND V 0MPH 0.0M/S	RHO	LB/FT3	0.033	0.024	KG/M3	0.536	0.378	AREA (MOD)	SQFT	0.060	0.080	SQM	0.006	0.007
REL H 29 %	VEL	FPS	1758.8	1895.6	M/S	536.1	577.8	W (MODEL)	LB/S	3.1	3.5	KG/S	1.4	1.6

1/3 OCTAVE BAND MODEL JET NOISE DATA 15.0FT RADIUS THEORETICAL DAY SPL - (MODEL)

BAND CENTER FREQ (KHZ)	MICROPHONE ANGLES IN DEGREES 60	70	80	90	100	110	120	130	140	150	160	POWER 1E-12W
.050	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
.063	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
.080	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
.100	85.9	89.1	91.3	91.8	91.6	92.0	93.7	96.6	98.5	102.2	106.6	118.7
.125	86.9	90.6	91.3	93.4	94.9	93.9	93.7	98.5	102.0	104.6	107.2	120.6
.160	92.6	94.5	92.7	92.9	92.3	92.5	93.7	96.1	101.8	106.1	109.8	121.5
.200	91.0	90.3	91.2	92.7	93.9	94.4	96.9	99.7	106.2	110.3	112.9	124.8
.250	92.4	92.3	93.1	95.1	95.8	97.0	98.7	102.8	108.2	113.0	115.0	127.2
.315	93.6	93.5	95.0	96.8	97.8	98.9	101.3	106.3	110.7	115.5	118.4	130.0
.400	96.9	96.9	97.3	98.6	100.2	102.1	104.7	109.9	115.1	118.7	121.2	133.3
.500	97.7	97.7	98.0	99.3	100.2	102.1	104.9	110.6	117.4	120.9	119.4	134.6
.630	99.6	98.9	99.8	101.4	102.2	103.7	107.3	113.7	119.3	121.9	120.4	136.1
.800	99.7	100.1	100.8	102.5	103.6	104.8	107.7	114.6	120.6	122.7	119.8	136.9
1.00	100.9	101.1	100.9	103.0	104.8	106.6	109.7	115.9	121.8	123.0	120.8	137.8
1.25	101.0	101.6	102.5	103.8	105.7	107.0	110.2	115.6	122.1	122.7	119.7	137.7
1.60	101.2	101.6	102.3	103.9	105.5	107.3	110.4	115.3	121.5	122.9	119.2	137.5
2.00	100.9	101.0	102.4	103.9	105.5	107.5	110.8	114.8	120.6	121.9	117.9	136.6
2.50	100.2	101.0	102.3	104.1	105.8	108.0	111.2	114.6	119.8	121.1	117.8	136.1
3.15	99.9	100.3	102.0	103.9	105.8	108.2	111.4	114.2	118.4	119.3	116.0	134.9
4.00	98.8	99.8	101.5	103.8	106.0	108.3	111.4	113.5	117.1	117.3	113.7	133.8
5.00	98.0	99.0	100.7	103.1	105.4	107.9	110.6	112.5	115.6	115.6	111.3	132.5
6.30	97.2	98.4	100.5	103.2	105.3	107.8	110.2	111.6	114.5	113.7	109.4	131.5
8.00	95.8	97.4	100.3	102.4	104.7	107.3	109.5	110.5	112.8	111.8	107.2	130.3
10.0	94.6	96.8	99.3	102.1	104.5	106.9	108.8	109.5	111.6	110.3	105.5	129.3
12.5	94.1	96.0	98.6	101.5	103.7	106.4	107.7	108.2	109.9	108.8	103.9	128.2
16.0	93.5	95.5	98.3	101.1	103.4	105.7	107.0	107.5	108.7	107.7	103.1	127.3
20.0	92.1	94.2	97.1	100.1	102.2	104.0	105.4	105.5	106.8	106.2	101.5	125.7
25.0	91.3	93.2	96.4	99.6	101.6	103.9	104.4	104.5	106.2	105.3	101.5	125.1
31.5	90.4	92.4	95.7	98.9	101.1	102.7	103.5	103.5	105.0	104.4	100.6	124.1
40.0	89.7	92.0	94.6	98.2	100.0	102.1	102.1	103.0	104.3	104.2	100.6	123.3
50.0	89.0	90.9	94.0	97.0	98.7	101.0	101.6	101.9	103.6	103.4	100.5	122.5
63.0	87.7	89.6	92.9	95.9	98.1	99.7	100.6	100.9	103.0	103.0	99.9	121.7
80.0	87.4	88.7	92.3	95.1	97.4	98.8	100.2	100.9	103.1	103.6	100.4	121.5
100.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
OSPL	111.6	112.3	113.7	115.8	117.6	119.7	122.2	125.8	130.9	132.4	130.4	OAPWL = 147.5

STAND X206 RIG ID 070530 TEST DATE 02/28/77 SCALE RATIO 12.0/1 RUN NUMBER 2008 CONDITION 8212

				PRIMARY	FAN		PRIMARY	FAN			PRIMARY	FAN		PRIMARY	FAN
TEMP	77.0(F)	25.0(C)	AREA SQFT	8.640	11.520	SQM	0.803	1.070	MASS FLOW	LB/S	444.1	502.6	KG/S	202.5	228.7
PRES	29.80IN	1.013AR	P.R.	1.99	1.78		1.99	1.78	THRUST,IDL	LB	24383.0	29415.6	KN	108.460	130.846
WIND D			TEMP (R)	1424.7	1946.7	(K)	791.5	1081.5	THRUST,MEA	LB		0.0	KN	0.0	
WIND V	0MPH	0.0M/S	RHO LB/FT3	0.033	0.024	KG/M3	0.536	0.378	AREA (MOD)	SQFT	0.060	0.080	SQM	0.006	0.007
REL H	70.0%		VEL FPS	1758.8	1895.6	M/S	536.1	577.8	W (MODEL)	LB/S	3.1	3.5	KG/S	1.4	1.6

FAA DAY 1/3 OCTAVE BAND ENGINE JET NOISE DATA 150.0FT RADIUS (SCALED ENGINE)

BAND CENTER FREQ (KHZ)	MICROPHONE ANGLES IN DEGREES 60	70	80	90	100	110	120	130	140	150	160	POWER 1E-12W
.050	101.2	100.5	101.4	103.0	103.8	105.3	108.9	115.3	120.9	123.5	122.0	159.2
.063	101.3	101.7	102.4	104.1	105.2	106.4	109.3	116.2	122.2	124.3	121.4	160.0
.080	102.5	102.7	102.5	104.6	106.4	108.4	111.3	117.5	123.4	124.6	122.4	160.9
.100	102.6	103.2	104.1	105.4	107.3	108.6	111.8	117.2	123.7	124.3	121.3	160.8
.125	102.8	103.2	103.9	105.5	107.1	108.9	112.0	116.9	123.1	124.5	120.8	160.6
.160	102.4	102.5	103.9	105.4	107.0	109.0	112.3	116.3	122.1	123.4	119.4	159.7
.200	101.7	102.5	103.8	105.6	107.3	109.5	112.7	116.1	121.3	122.6	119.3	159.2
.250	101.4	101.8	103.5	105.4	107.3	109.7	112.9	115.7	119.9	120.8	117.5	158.0
.315	100.3	101.3	103.0	105.3	107.5	109.8	112.9	115.0	118.6	118.8	115.2	156.9
.400	99.5	100.5	102.2	104.6	106.9	109.4	112.1	114.0	117.1	117.1	112.8	155.6
.500	98.6	99.8	101.9	104.6	106.7	109.2	111.6	113.0	115.9	115.1	110.8	154.5
.630	97.2	98.8	101.7	103.8	106.1	108.7	110.9	111.9	114.2	113.2	108.6	153.3
.800	96.0	98.2	100.7	103.5	105.9	108.3	110.2	110.9	113.0	111.7	106.9	152.3
1.00	95.4	97.3	99.9	102.8	105.0	107.7	109.0	109.5	111.2	110.1	105.2	151.1
1.25	94.7	96.7	99.5	102.3	104.6	106.9	108.2	108.7	109.9	108.9	104.3	150.2
1.60	93.2	95.3	98.2	101.2	103.3	105.1	106.5	106.6	107.9	107.3	102.6	148.4
2.00	92.4	94.3	97.5	100.7	102.7	105.0	105.5	105.6	107.3	106.4	102.6	147.7
2.50	91.3	93.3	96.6	99.8	102.0	103.6	104.4	104.4	105.9	105.3	101.5	146.5
3.15	90.4	92.7	95.3	98.9	100.7	102.8	102.8	103.7	105.0	104.9	101.3	145.6
4.00	89.5	91.4	94.5	97.5	99.2	101.5	102.1	102.4	104.1	103.9	101.0	144.5
5.00	88.0	89.9	93.2	96.2	98.4	100.0	100.9	101.2	103.3	103.3	100.2	143.5
6.30	87.4	88.7	92.3	95.1	97.4	98.8	100.2	100.9	103.1	103.6	100.4	143.0
8.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

OAPWL = 170.0

OSPL	112.5	113.2	114.7	116.8	118.7	120.8	123.4	126.9	132.0	133.2	130.2	
PNL	118.9	120.4	122.8	125.6	127.6	129.6	131.1	132.7	136.1	136.7	133.2	
				200. SIDELINE								
PNL	114.8	117.2	120.0	122.9	124.8	126.4	127.1	127.5	129.5	127.7	120.6	
				370. SIDELINE								
PNL	108.9	111.2	114.1	117.0	118.9	120.4	121.2	121.8	123.7	121.9	114.6	
				800. SIDELINE								
PNL	101.1	103.1	106.1	108.9	110.8	112.3	113.3	114.1	116.1	114.0	106.4	
				2128. SIDELINE								
PNL	90.1	92.0	94.6	97.2	99.1	100.8	102.2	103.1	105.3	103.1	95.1	

STAND X206 RIG ID 070530 TEST DATE 02/25/77 SCALE RATIO 12.0/1 RUN NUMBER 20082 CONDITION 8213

					PRIMARY	FAN		PRIMARY	FAN				PRIMARY	FAN
TEMP	51°F	10.6 °C	AREA	SQFT	0.0	0.0	SQM	0.0	0.0	MASS FLOW	LB/S	0.0	0.0	KG/S	0.0	0.0
PRES	29.53IN	1.00BAR	P.R.		2.00	2.48		2.00	2.48	THRUST,IDL	LB	158.4	230.2	KN	0.704	1.024
WIND D			TEMP	(R)	1454.7	1966.7	(K)	808.2	1092.6	THRUST,MEA	LB		0.0	KN	0.0	
WIND V	0MPH	0.0M/S	RHO	LB/FT3	0.033	0.025	KG/M3	0.526	0.405	AREA (MOD)	SQFT	0.060	0.080	SQM	0.006	0.007
REL H	44 90		VEL	FPS	1782.9	2345.7	M/S	543.4	715.0	W (MODEL)	LB/S	2.9	3.2	KG/S	1.3	1.4

1/3 OCTAVE BAND MODEL JET NOISE DATA 15.0FT RADIUS THEORETICAL DAY SPL - (MODEL)

BAND CENTER FREQ (KHZ)	MICROPHONE ANGLES IN DEGREES 60	70	80	90	100	110	120	130	140	150	160	POWER 1E-12W
.050	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
.063	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
.080	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
.100	92.3	95.6	96.9	96.5	97.9	97.4	95.4	102.3	102.0	106.4	113.1	124.0
.125	92.8	96.3	96.2	97.0	99.1	98.7	97.8	103.0	104.7	108.1	113.5	125.0
.160	96.0	97.8	96.2	96.6	97.1	97.6	98.5	101.8	104.9	110.0	116.3	126.3
.200	97.6	97.4	98.3	99.3	100.2	100.7	102.1	105.9	109.8	114.8	119.6	130.2
.250	101.4	101.6	101.2	100.7	100.7	101.3	101.7	108.0	111.2	116.5	121.5	131.9
.315	98.0	97.7	99.2	100.8	102.8	102.5	104.5	111.6	114.1	119.4	124.9	134.9
.400	99.3	100.4	101.1	101.2	103.4	105.6	107.8	114.4	118.2	122.3	126.9	137.5
.500	102.9	101.2	101.0	102.5	103.5	105.6	108.1	115.4	120.3	125.1	124.9	138.6
.630	101.2	101.8	103.2	104.5	105.3	107.1	110.2	118.5	122.0	125.4	125.8	139.7
.800	103.2	103.9	103.9	105.1	106.4	107.8	110.7	119.3	123.2	126.0	125.6	140.4
1.00	103.4	104.2	104.6	105.8	107.8	109.9	112.5	120.3	124.3	126.5	126.8	141.3
1.25	103.4	105.0	105.0	106.6	108.9	110.5	113.4	120.4	124.5	126.3	125.9	141.2
1.60	103.2	104.8	104.9	106.4	108.3	110.6	113.7	120.1	124.3	126.8	125.4	141.3
2.00	103.4	104.0	105.0	106.2	108.2	110.8	114.4	119.7	123.8	126.0	123.6	140.5
2.50	103.0	103.9	104.9	106.5	108.6	111.4	115.0	120.1	123.8	125.0	122.3	140.2
3.15	102.8	103.9	104.9	106.7	109.0	111.9	115.4	120.1	123.9	123.1	119.7	139.6
4.00	102.5	103.8	105.0	106.8	109.2	112.5	115.5	120.1	123.6	121.0	117.6	139.1
5.00	102.3	103.4	104.8	106.7	109.2	112.3	115.2	119.9	122.2	119.3	115.5	138.1
6.30	101.9	103.4	104.8	106.7	109.5	112.7	115.2	120.4	120.9	117.7	113.4	137.6
8.00	100.9	103.0	104.6	106.5	109.3	112.6	115.0	120.1	119.2	116.2	111.3	136.8
10.0	100.2	102.4	104.3	106.4	109.2	112.4	114.4	119.3	118.2	115.0	109.8	136.0
12.5	99.5	101.9	103.8	106.1	108.8	112.1	114.0	118.1	117.1	113.7	108.4	135.1
16.0	99.0	101.4	103.8	105.7	108.8	111.5	113.2	117.2	116.4	112.8	107.4	134.4
20.0	97.8	100.4	102.8	104.9	107.6	110.2	112.2	115.9	114.9	111.4	105.9	133.1
25.0	96.8	99.5	102.2	104.3	107.1	109.9	111.1	114.9	114.2	110.6	105.5	132.4
31.5	95.8	99.0	101.4	103.8	106.4	108.9	110.7	114.4	113.6	110.0	104.6	131.7
40.0	95.7	98.4	100.5	103.4	105.7	108.7	109.5	114.1	113.4	110.0	104.9	131.3
50.0	95.0	97.8	100.3	102.3	104.8	108.1	109.7	113.5	113.1	109.5	104.7	130.9
63.0	93.9	96.5	99.1	101.0	104.0	107.1	108.7	113.1	112.6	109.0	104.4	130.3
80.0	94.1	96.2	98.9	100.7	103.9	107.0	109.4	113.9	113.7	109.9	105.9	131.0
100.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
OSPL	115.3	116.5	117.6	119.3	121.6	124.3	126.8	132.2	134.9	136.2	136.1	OAPWL = 151.9

STAND X206 RIG ID 070530 TEST DATE 02/25/77 SCALE RATIO 12.0/1 RUN NUMBER 2008 CONDITION 8213

					PRIMARY	FAN			PRIMARY	FAN				PRIMARY	FAN
TEMP	77.0(F)	25.0(C)	AREA	SQFT	8.640	11.520	SQM	0.803	1.070	MASS FLOW	LB/S	433.4	754.0	KG/S	196.8	206.4
PRES	29.53IN	1.00BAR	P.R.		2.00	2.48		2.00	2.48	THRUST,IDL	LB	22603.1	33148.5	KN	101.432	147.451
WIND D			TEMP	(R)	1454.7	1966.7	(K)	808.2	1092.6	THRUST,MEA	LB		0.0	KN	0.0	
WIND V	0MPH	0.0M/S	RHO	LB/FT3	0.033	0.025	KG/M3	0.526	0.405	AREA (MOD)	SQFT	0.060	0.080	SQM	0.006	0.007
REL H	70.0%		VEL	FPS	1782.9	2345.7	M/S	543.4	715.0	W (MODEL)	LB/S	2.9	3.2	KG/S	1.3	1.4

FAA DAY

1/3 OCTAVE BAND ENGINE JET NOISE DATA 150.0FT RADIUS (SCALED ENGINE)

BAND CENTER FREQ (KHZ)	MICROPHONE ANGLES IN DEGREES 60	70	80	90	100	110	120	130	140	150	160	POWER 1E-12W
.050	102.8	103.4	104.8	106.1	106.9	108.7	111.8	120.1	123.6	127.0	127.4	
.063	104.8	105.5	105.5	106.7	108.0	109.4	112.3	120.9	124.8	127.6	127.2	162.9
.080	105.0	105.8	106.2	107.4	109.4	111.5	114.1	121.9	125.9	128.1	128.4	163.6
.100	105.0	106.6	106.6	108.2	110.5	112.1	115.0	122.0	126.1	127.9	127.5	164.4
.125	104.8	106.4	106.5	108.0	109.9	112.2	115.3	121.7	125.9	128.4	127.0	164.4
.160	104.9	105.5	106.5	107.7	109.7	112.3	115.9	121.2	125.3	127.5	125.1	164.4
.200	104.5	105.4	106.4	108.0	110.1	112.9	116.5	121.6	125.3	126.5	123.8	163.7
.250	104.3	105.4	106.4	108.2	110.5	113.4	116.9	121.6	125.4	124.6	121.2	163.3
.315	104.6	105.3	106.5	108.3	110.7	114.0	117.0	121.6	125.1	122.5	119.1	162.7
.400	103.8	104.9	106.3	108.2	110.7	113.8	116.7	121.4	123.7	120.8	117.0	162.1
.500	103.3	104.8	106.2	108.1	110.9	114.1	116.6	121.8	122.3	119.1	114.8	161.2
.630	102.3	104.4	106.0	107.9	110.7	114.0	116.4	121.5	120.6	117.6	112.7	160.6
.800	101.6	103.8	105.7	107.8	110.6	113.8	115.8	120.7	119.6	116.4	111.2	159.8
1.00	100.8	103.2	105.1	107.4	110.1	113.4	115.3	119.4	118.4	115.0	109.7	159.0
1.25	100.2	102.6	105.0	106.9	110.0	112.7	114.4	118.4	117.6	114.0	108.6	158.0
1.60	98.9	101.5	103.9	106.0	108.7	111.3	113.3	117.0	116.0	112.5	107.0	157.2
2.00	97.9	100.6	103.3	105.4	108.2	111.0	112.2	116.0	115.3	111.7	106.6	155.8
2.50	96.7	99.9	102.3	104.7	107.3	109.8	111.6	115.3	114.5	110.9	105.5	155.6
3.15	96.4	99.1	101.2	104.1	106.4	109.4	110.2	114.8	114.1	110.7	105.6	154.2
4.00	95.5	98.3	100.8	102.8	105.3	108.6	110.2	114.0	113.6	110.0	105.2	153.6
5.00	94.2	96.8	99.4	101.3	104.3	107.4	109.0	113.4	112.9	109.3	104.7	152.9
6.30	94.1	96.2	98.9	100.7	103.9	107.0	109.4	113.9	113.7	109.9	105.9	152.2
8.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	152.5
10.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
												0.0
OASPL	115.9	117.3	118.5	120.2	122.6	125.4	128.0	133.4	136.0	136.9	135.7	OAPWL = 174.4
PNL	123.8	125.9	127.8	130.0	132.5	135.4	137.3	141.9	142.5	141.0	137.9	

200. SIDELINE

PNL 119.7 122.7 125.0 127.3 129.6 132.1 133.3 136.7 135.7 132.0 125.4

370. SIDELINE

PNL 113.7 116.7 119.1 121.3 123.7 126.0 127.3 130.5 129.8 126.1 119.4

800. SIDELINE

PNL 105.5 108.5 110.9 113.2 115.5 117.7 118.9 122.1 121.8 118.2 111.3

2128. SIDELINE

PNL 94.2 96.8 98.9 101.0 103.3 105.6 107.2 110.6 110.5 107.1 100.2

STAND X206 RIG ID 670530 TEST DATE 02/28/77 SCALE RATIO 12.0/1 RUN NUMBER 20081 CONDITION 8214

			PRIMARY	FAN		PRIMARY	FAN			PRIMARY	FAN		PRIMARY	FAN
TEMP 53°F, 11.70C	AREA	SQFT	0.0	0.0	SQM	0.0	0.0	MASS FLOW	LB/S	0.0	0.0	KG/S	0.0	0.0
PRES 29.80IN 1.01BAR	P.R.		2.00	4.08		2.00	4.08	THRUST,IDL	LB	166.4	695.8	KN	0.740	3.095
WIND D	TEMP	(R)	1447.7	1956.7	(K)	804.3	1087.1	THRUST,MEA	LB		0.0	KN	0.0	
WIND V 0MPH 0.0M/S	RHO	LB/FT3	0.033	0.029	KG/M3	0.528	0.459	AREA (MOD)	SQFT	0.060	0.080	SQM	0.006	0.007
REL H 27 %	VEL	FPS	1774.6	2828.9	M/S	540.9	862.3	W (MODEL)	LB/S	3.0	7.4	KG/S	1.4	3.4

1/3 OCTAVE BAND MODEL JET NOISE DATA 15.0FT RADIUS THEORETICAL DAY SPL - (MODEL)

BAND CENTER FREQ (KHZ)	MICROPHONE ANGLES IN DEGREES 60	70	80	90	100	110	120	130	140	150	160	POWER 1E-12W
.050	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
.063	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
.080	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
.100	95.7	98.9	100.8	100.1	100.0	100.7	102.2	104.8	107.9	111.2	116.5	127.9
.125	97.5	100.5	100.9	102.0	103.1	101.7	101.4	105.6	109.6	112.6	116.7	128.4
.160	102.4	103.8	101.7	102.0	101.4	101.1	102.2	104.2	110.5	114.4	119.0	130.3
.200	100.6	99.3	100.5	101.5	102.7	102.9	105.4	107.6	114.3	118.7	121.9	133.4
.250	102.9	102.4	102.0	103.5	104.9	105.9	107.4	110.8	116.1	121.3	124.1	135.7
.315	101.5	101.8	103.6	105.4	106.9	107.4	109.3	114.1	118.6	123.9	127.3	138.4
.400	106.1	105.8	105.6	106.3	106.1	110.0	112.6	117.1	122.7	126.8	130.1	141.5
.500	105.8	105.5	105.9	106.4	107.6	109.6	112.4	118.1	125.5	129.1	128.0	142.7
.630	106.6	106.6	107.6	108.8	109.6	110.9	114.6	121.0	126.9	129.6	128.4	143.6
.800	107.5	107.6	108.3	109.7	110.9	111.7	115.3	122.0	128.1	130.6	128.2	144.6
1.00	108.3	108.2	108.4	109.7	111.9	113.5	117.6	123.3	129.3	130.9	127.9	145.3
1.25	107.6	108.0	108.9	110.0	112.1	113.9	117.8	123.5	130.1	130.4	125.5	145.4
1.60	107.0	107.7	108.7	110.1	111.9	114.0	118.4	123.9	130.5	129.5	123.2	145.3
2.00	109.0	107.9	109.1	110.3	112.2	114.7	119.4	124.8	131.2	127.0	120.6	145.1
2.50	110.5	110.5	110.3	111.0	112.9	115.4	120.3	125.7	130.7	125.1	119.7	144.9
3.15	110.0	110.6	112.2	112.2	113.5	116.2	121.0	126.5	128.9	123.6	117.8	144.1
4.00	109.6	110.1	111.6	113.6	114.5	117.0	121.6	127.2	127.1	121.9	116.2	143.7
5.00	109.9	109.8	110.8	112.6	114.9	117.3	121.3	126.6	125.8	120.4	114.1	143.0
6.30	110.1	110.4	111.4	112.9	115.1	117.7	121.3	125.2	124.6	118.9	112.4	142.0
8.00	110.1	110.7	111.7	113.1	114.9	117.8	120.6	124.1	123.1	117.2	110.8	141.2
10.0	109.7	111.1	112.0	113.3	115.0	117.4	120.1	123.0	122.2	116.1	109.4	140.5
12.5	109.7	110.9	112.4	113.5	115.0	117.1	119.5	121.9	121.1	115.1	108.1	139.8
16.0	109.6	111.0	112.6	113.8	115.0	116.7	118.8	121.3	120.1	114.2	107.4	139.2
20.0	108.8	110.7	112.1	113.5	114.3	115.5	117.7	119.9	118.7	113.1	106.0	138.1
25.0	108.4	110.1	111.8	113.4	114.1	115.4	116.7	118.8	118.2	112.3	105.9	137.6
31.5	108.2	109.7	111.5	113.1	113.7	114.5	116.3	118.1	117.2	111.5	104.8	136.9
40.0	108.0	109.8	111.0	112.9	113.1	114.3	115.4	118.0	116.9	111.5	104.7	136.5
50.0	107.5	109.1	110.9	112.3	112.6	113.7	115.4	117.3	116.5	110.6	104.7	136.1
63.0	106.4	108.1	110.4	111.7	112.5	113.4	114.9	116.7	115.9	110.1	104.0	135.6
80.0	106.5	107.8	110.4	111.5	112.7	113.3	115.3	117.2	115.9	111.0	104.7	135.8
100.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
OSPL	122.6	123.3	124.6	125.9	127.2	129.1	132.3	136.8	140.1	139.4	137.6	OAPWL = 156.3

20081F TAPE P7301 NASA VSCE (NAS3-20061) CONFIG. B

15.2049

STAND X206 RIG ID 070530 TEST DATE 02/28/77 SCALE RATIO 12.0/1 RUN NUMBER 2008 CONDITION 8214

				PRIMARY	FAN		PRIMARY	FAN			PRIMARY	FAN		PRIMARY	FAN
TEMP	77.0(F)	25.0(C)	AREA SQFT	8.640	11.520	SQM	0.803	1.070	MASS FLOW	LB/S	432.0	1219.0	KG/S	197.3	517.3
PRES	29.80IN	1.01BAR	P.R.	2.00	4.08		2.00	4.08	THRUST,IDL	LB	966.5	100197.1	KN	106.608	445.697
WIND D			TEMP (R)	1447.7	1956.7	(K)	804.3	1087.1	THRUST,MEA	LB		0.0	KN	0.0	
WIND V	OMPH	0.0M/S	RHO LB/FT3	0.033	0.029	KG/M3	0.528	0.459	AREA (MOD)	SQFT	0.060	0.080	SQM	0.006	0.007
REL H	70.0%		VEL FPS	1774.6	2828.9	M/S	540.9	862.3	W (MODEL)	LB/S	3.0	7.9	KG/S	1.4	3.6

FAA DAY.

1/3 OCTAVE BAND ENGINE JET NOISE DATA 150.0FT RADIUS (SCALED ENGINE)

BAND CENTER FREQ (KHZ)	MICROPHONE ANGLES IN DEGREES 60	70	80	90	100	110	120	130	140	150	160	POWER 15-128
.050	108.2	108.2	109.2	110.4	111.2	112.5	116.2	122.6	128.5	131.4	130.0	
.063	109.1	109.2	109.9	111.3	112.5	113.3	116.9	123.6	129.7	132.2	129.8	166.9
.080	109.9	109.8	110.0	111.3	113.5	115.1	118.6	124.9	130.9	132.5	129.5	167.8
.100	109.2	109.6	110.5	111.6	113.7	115.5	119.4	125.1	131.7	132.0	127.1	168.5
.125	108.6	109.3	110.3	111.7	113.5	115.6	120.0	125.5	132.1	131.1	124.8	168.5
.160	110.5	109.4	110.6	111.8	113.7	116.2	120.9	126.3	132.7	128.5	122.1	168.4
.200	112.6	112.0	111.8	112.5	114.4	116.9	121.8	127.2	132.2	126.6	121.2	168.3
.250	111.5	112.1	113.7	113.7	115.0	117.7	122.5	128.0	130.4	125.1	119.3	168.0
.315	111.1	111.6	113.1	115.1	116.0	118.5	123.1	128.7	128.6	123.4	117.7	167.2
.400	111.4	111.3	112.3	114.1	116.4	118.8	122.8	128.1	127.3	121.9	115.6	166.8
.500	111.5	111.8	112.8	114.3	116.5	119.1	122.7	126.6	126.0	120.3	113.8	166.0
.630	111.5	112.1	113.1	114.5	116.3	119.2	122.6	125.5	124.5	118.6	112.2	165.1
.800	111.1	112.5	113.4	114.7	116.4	118.8	121.5	124.4	123.6	117.5	110.8	164.2
1.00	111.0	112.2	113.7	114.8	116.3	118.4	120.8	123.2	122.4	116.4	109.4	163.4
1.25	110.8	112.2	113.8	115.0	116.2	117.9	120.0	122.5	121.3	115.4	108.6	162.7
1.60	109.9	111.8	113.2	114.6	115.4	116.6	118.8	121.0	119.8	114.2	107.1	162.1
2.00	109.5	111.2	112.9	114.5	115.2	116.5	117.8	119.9	119.3	113.4	107.0	160.9
2.50	109.1	110.6	112.4	114.0	114.6	115.4	117.2	119.0	118.1	112.4	105.7	160.2
3.15	108.7	110.5	111.7	113.6	113.8	115.0	116.1	118.7	117.6	112.2	105.4	159.4
4.00	108.0	109.6	111.4	112.8	113.1	114.2	115.9	117.8	117.0	111.1	105.2	158.8
5.00	106.7	108.4	110.7	112.0	112.8	113.7	115.2	117.0	116.2	110.4	104.3	158.1
6.30	106.5	107.8	110.4	111.5	112.7	113.3	115.3	117.2	115.9	111.0	104.7	157.5
8.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	157.3
10.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
												0.0

OSPL	123.5	124.3	125.5	126.8	128.2	130.2	133.5	138.1	141.3	140.0	136.3	OAPWL = 178.8
PNL	134.1	135.3	136.7	138.2	139.1	140.6	142.9	146.1	146.9	142.7	137.4	

200. SIDELINE

PNL 130.0 132.0 133.8 135.5 136.2 137.3 138.8 140.9 140.2 133.8 124.9

370. SIDELINE

PNL 123.9 126.0 127.8 129.5 130.2 131.2 132.8 134.9 134.4 127.9 118.9

800. SIDELINE

PNL 115.4 117.5 119.5 121.1 121.9 122.9 124.5 127.1 126.6 120.0 110.8

2128. SIDELINE

PNL 102.6 104.7 106.7 108.4 109.3 110.5 112.9 115.8 115.6 109.1 99.9

20081F TAPE P7335 NASA VSCE (NAS3-20061) CONFIG. B TABS W/O COWL 15.2049

STAND X206 RIG ID 705308 TEST DATE 03/09/77 SCALE RATIO 0.0/1 RUN NUMBER 20081 CONDITION 82/5

				PRIMARY	FAN		PRIMARY	FAN			PRIMARY	FAN		PRIMARY	FAN
TEMP	86°F	30°C	AREA SQFT	0.0	0.0	SQM	0.0	0.0	MASS FLOW	LB/S	0.0	0.0	KG/S	0.0	0.0
PRES	30.11IN	1.02BAR	P.R.	1.29	1.00		1.29	1.00	THRUST,IDL	LB	58.0	0.0	KN	0.258	0.0
WIND D			TEMP (R)	1240.7	512.7	(K)	689.3	284.9	THRUST,MEA	LB		0.0	KN	0.0	
WIND V	0MPH	0.0M/S	RHO LB/FT3	0.034	0.078	KG/M3	0.552	1.249	AREA (MOD)	SQFT	0.060	0.080	SQM	0.006	0.007
REL H	17 %		VEL FPS	1025.8	0.0	M/S	312.7	0.0	W (MODEL)	LB/S	1.8	0.0	KG/S	0.8	0.0

1/3 OCTAVE BAND MODEL JET NOISE DATA 15.0FT RADIUS

THEORETICAL DAY SPL - (MODEL)

BAND CENTER FREQ (KHZ)	MICROPHONE ANGLES IN DEGREES 60	70	80	90	100	110	120	130	140	150	160	POWER 1E-12W
.050	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
.063	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
.080	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
.100	64.9	67.3	69.6	71.3	70.8	72.0	74.4	76.5	77.2	80.2	83.3	97.2
.125	66.9	71.1	71.4	70.9	71.6	72.9	73.0	77.5	80.1	81.9	83.2	96.4
.160	68.1	71.8	71.7	71.8	70.4	72.1	73.8	75.6	80.0	83.3	85.5	96.0
.200	69.3	70.2	70.8	72.2	73.4	74.2	76.7	79.1	84.0	87.3	88.5	102.2
.250	70.9	73.3	73.4	74.8	75.4	76.3	78.8	81.7	85.7	89.3	90.6	104.3
.315	74.1	75.3	75.3	76.5	77.5	78.5	81.4	84.8	88.0	91.5	94.2	106.9
.400	76.5	77.2	78.6	79.8	81.1	82.1	84.5	87.8	91.4	95.1	97.5	110.2
.500	79.4	79.1	79.7	81.3	81.8	83.1	85.9	89.1	93.8	97.1	97.3	111.7
.630	80.6	80.9	81.8	82.8	84.0	85.3	88.3	91.4	95.2	98.8	99.6	113.6
.800	81.3	82.7	82.7	83.9	85.0	85.9	88.2	92.2	96.2	99.4	99.1	114.1
1.00	81.7	82.1	83.1	84.4	86.3	87.6	89.8	93.2	96.3	98.5	98.5	114.1
1.25	81.3	82.7	83.6	84.6	86.4	87.8	90.1	92.9	95.7	96.7	95.0	113.2
1.60	81.2	82.3	83.4	84.6	86.5	87.7	90.2	92.9	94.6	94.8	92.3	112.4
2.00	80.7	82.5	83.5	85.1	86.8	88.1	90.4	92.7	93.7	92.2	89.1	111.6
2.50	81.0	82.7	83.7	85.4	87.3	88.5	90.7	92.7	92.6	90.6	87.9	111.4
3.15	81.0	82.4	83.7	85.2	87.0	88.2	90.5	91.7	91.3	89.0	85.5	110.7
4.00	81.1	82.4	83.4	84.9	86.8	88.2	90.1	91.0	89.8	87.0	83.7	110.1
5.00	81.1	81.4	82.6	84.1	86.2	87.3	89.2	89.6	88.1	85.0	81.3	109.0
6.30	80.6	81.1	82.1	83.6	85.7	86.8	88.6	88.6	86.7	83.5	79.5	108.1
8.00	79.0	80.1	81.4	82.8	84.7	85.8	87.4	87.0	85.0	81.7	77.6	107.0
10.0	77.8	79.4	80.4	81.9	83.9	84.8	86.4	85.6	83.4	80.4	75.9	105.9
12.5	77.8	78.5	79.3	81.0	82.7	83.8	84.9	83.9	81.7	78.5	73.8	104.6
16.0	76.9	77.8	78.9	80.1	82.2	83.2	84.1	82.8	80.5	77.0	72.4	103.8
20.0	75.3	77.1	77.8	78.9	80.9	81.7	82.8	81.2	78.8	75.3	70.1	102.4
25.0	75.3	76.0	77.2	78.8	80.6	81.7	81.9	80.3	77.7	74.4	69.6	101.9
31.5	74.6	75.9	77.3	78.4	80.3	80.7	81.7	79.5	77.2	73.3	68.5	101.4
40.0	74.6	76.3	77.4	78.9	80.4	81.2	81.2	79.7	76.9	73.9	68.8	101.5
50.0	74.9	76.0	77.1	79.0	80.2	81.3	81.7	79.6	76.7	74.0	69.5	101.6
63.0	74.3	75.6	77.1	78.5	80.3	81.0	81.2	79.2	76.3	74.6	70.5	101.3
80.0	74.6	75.9	77.7	78.6	80.6	80.7	81.3	79.7	77.7	76.2	71.6	101.6
100.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
OSPL	93.1	94.2	95.2	96.6	98.3	99.5	101.4	103.3	105.1	106.8	106.8	OAPWL = 123.8

5.1B-29

20081F TAPE P7335 NASA VSCE (NAS3-20061) CONFIG. B TABS W/O CCWL 15.2049

STAND X206 RIG ID 705308 TEST DATE 03/09/77 SCALE RATIO 12.0/1 RUN NUMBER 2003 CONDITION 82.5°

			PRIMARY	FAN		PRIMARY	FAN			PRIMARY	FAN		PRIMARY	FAN
TEMP	77.0(F) 25.0(C)	AREA SQFT	8.640	11.520	SQM	0.803	1.070	MASS FLOW	LB/S	262.1	0.0	KG/S	118.9	0.0
PRES	30.11IN 1.02BAR	P.R.	1.29	1.00		1.29	1.00	THRUST,IDL	LB	8349.0	0.0	KN	37.138	0.0
WIND D		TEMP (R)	1240.7	512.7	(K)	689.3	284.9	THRUST,MEA	LB		0.0	KN	0.0	
WIND V	OMPH 0.0M/S	RHO LB/FT3	0.034	0.078	KG/M3	0.552	1.249	AREA (MOD)	SQFT	0.060	0.080	SQM	0.006	0.007
REL H	70.0%	VEL FPS	1025.8	0.0	M/S	312.7	0.0	W (MODEL)	LB/S	1.8	0.0	KG/S	0.8	0.0

FAA DAY

1/3 OCTAVE BAND ENGINE JET NOISE DATA 150.0FT RADIUS (SCALED ENGINE)

BAND CENTER FREQ (KHZ)	MICROPHONE ANGLES IN DEGREES 60	70	80	90	100	110	120	130	140	150	160	POWER 1E-12W
.050	82.2	82.5	83.4	84.4	85.6	86.9	89.9	93.0	96.8	100.4	101.2	
.063	82.9	84.3	84.3	85.5	86.6	87.5	89.8	93.8	97.8	101.0	100.7	136.7
.080	83.3	83.7	84.7	86.0	87.9	89.2	91.4	94.8	97.9	100.1	100.1	137.3
.100	82.9	84.3	85.2	86.2	88.0	89.4	91.7	94.5	97.3	98.3	96.6	137.3
.125	82.8	83.9	85.0	86.2	88.1	89.3	91.8	94.5	96.2	96.4	93.9	136.3
.160	82.2	84.0	85.0	86.6	88.3	89.6	91.9	94.2	95.2	93.7	90.6	135.5
.200	82.5	84.2	85.2	86.9	88.8	90.0	92.2	94.2	94.1	92.1	89.4	134.8
.250	82.5	83.9	85.2	86.7	88.5	89.7	92.0	93.2	92.8	90.5	87.0	134.5
.315	82.6	83.9	84.9	86.4	88.3	89.7	91.6	92.5	91.3	88.5	85.2	133.9
.400	82.6	82.9	84.1	85.6	87.7	88.8	90.7	91.1	89.6	86.5	82.8	133.1
.500	82.0	82.5	83.5	85.0	87.1	88.2	90.0	90.0	88.1	84.9	80.9	132.0
.630	80.4	81.5	82.8	84.2	86.1	87.2	88.8	88.4	86.4	83.1	79.0	131.2
.800	79.2	80.8	81.8	83.3	85.3	86.2	87.8	87.0	84.8	81.8	77.3	130.9
1.00	79.1	79.8	80.6	82.3	84.0	95.1	86.2	85.2	83.0	79.8	75.1	128.8
1.25	78.1	79.0	80.1	81.3	83.4	84.4	85.3	84.0	81.7	78.2	73.6	127.5
1.60	76.4	78.2	78.9	80.0	82.0	82.8	83.9	82.3	79.9	76.4	71.2	126.6
2.00	76.4	77.1	78.3	79.9	81.7	82.8	83.0	81.4	78.8	75.5	70.7	125.1
2.50	75.5	76.8	78.2	79.3	81.2	81.6	82.6	80.4	78.1	74.2	69.4	124.5
3.15	75.3	77.0	78.1	79.6	81.1	81.9	81.9	80.4	77.6	74.6	69.5	123.9
4.00	75.3	76.5	77.6	79.5	80.7	81.8	82.2	80.1	77.2	74.5	70.0	123.8
5.00	74.6	75.9	77.4	78.8	80.6	81.3	81.5	79.5	76.6	74.9	70.8	123.6
6.30	74.6	75.9	77.7	78.6	80.6	80.7	81.3	79.7	77.7	76.2	71.6	123.2
8.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	123.1
10.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
												0.0

OAPWL = 146.1

OSPL	94.1	95.3	96.2	97.6	99.4	100.6	102.6	104.3	105.9	107.2	106.6
PNL	102.5	103.8	104.9	106.3	108.1	109.0	110.1	109.8	109.1	108.0	105.8

200. SIDELINE

PNL	98.3	100.4	102.0	103.6	105.2	105.7	106.0	106.7	102.5	99.1	93.4

370. SIDELINE

PNL	92.1	94.3	95.9	97.5	99.1	99.6	99.8	98.8	96.6	93.2	86.9

800. SIDELINE

PNL	83.5	85.7	87.4	89.1	90.7	91.1	91.8	90.9	88.7	84.9	78.0

2128. SIDELINE

PNL	71.8	73.8	75.6	77.3	79.1	79.6	80.3	79.5	77.1	72.7	65.6

STAND X206 RIG ID 705308 TEST DATE 03/09/77 SCALE RATIO 12.0/1 RUN NUMBER 20081 CONDITION 82/6

			PRIMARY	FAN		PRIMARY	FAN			PRIMARY	FAN		PRIMARY	FAN
TEMP	85°F 29.4°C	AREA SQFT	0.0	0.0	SQM	0.0	0.0	MASS FLOW	LB/S	0.0	0.0	KG/S	0.0	0.0
PRES	30.11IN 1.02BAR	P.R.	1.80	1.00		1.80	1.00	THRUST,IDL	LB	146.5	0.0	KN	0.652	0.0
WIND D		TEMP (R)	1253.7	514.7	(K)	696.5	285.9	THRUST,MEA	LB		0.0	KN	0.0	
WIND V OMPH	0.0M/S	RHO LB/FT3	0.037	0.078	KG/M3	0.596	1.245	AREA (MOD)	SQFT	0.060	0.060	SQM	0.006	0.007
REL H 17 %		VEL FPS	1531.2	0.0	M/S	466.7	0.0	W (MODEL)	LB/S	3.1	0.0	KG/S	1.4	0.0

1/3 OCTAVE BAND MODEL JET NOISE DATA 15.0FT RADIUS THEORETICAL DAY SPL - (MODEL)

BAND CENTER FREQ (KHZ)	MICROPHONE ANGLES IN DEGREES 60	70	80	90	100	110	120	130	140	150	160	POWER 1E-12W
.050	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
.063	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
.080	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
.100	73.0	75.9	78.3	79.3	78.8	79.8	82.0	84.2	85.4	89.3	93.3	105.4
.125	74.7	79.1	78.9	78.8	80.7	81.9	81.4	85.6	88.7	91.4	93.7	107.4
.160	78.6	81.6	80.4	80.9	79.1	80.4	81.9	84.1	89.0	93.3	96.0	108.5
.200	78.1	78.6	79.7	81.1	82.4	83.1	85.6	87.8	93.6	97.5	99.8	112.2
.250	79.1	80.5	81.2	83.1	84.1	85.1	87.5	90.8	95.5	99.8	101.7	114.3
.315	82.0	82.4	83.4	84.8	86.3	87.2	90.1	94.2	97.8	102.3	105.6	117.2
.400	85.1	85.8	87.0	88.3	90.1	91.4	93.6	97.4	101.8	106.3	109.1	121.0
.500	89.0	87.5	88.9	90.6	90.9	92.1	95.3	99.3	104.9	109.2	109.4	123.1
.630	90.4	90.2	90.6	92.4	93.3	94.6	97.7	102.2	107.4	111.4	111.9	125.5
.800	90.3	92.4	92.4	93.4	94.8	95.1	98.0	103.8	109.2	112.8	111.9	126.7
1.00	92.5	92.2	92.9	94.1	96.5	98.1	100.9	106.3	111.2	114.1	113.0	128.4
1.25	93.2	94.5	94.7	95.9	97.6	98.8	101.6	106.9	112.0	114.1	112.8	128.8
1.60	94.3	94.8	95.4	96.2	98.4	99.5	102.0	107.0	111.9	114.5	113.5	129.0
2.00	94.6	94.5	95.3	96.7	98.3	99.7	102.9	106.8	110.6	113.6	113.1	128.3
2.50	94.5	94.6	95.2	96.7	98.7	100.2	103.5	106.9	109.4	112.4	113.3	127.7
3.15	93.7	94.3	95.0	96.4	98.5	100.3	103.7	106.3	107.7	110.5	111.0	126.4
4.00	92.7	93.9	94.6	96.2	98.5	100.4	103.6	105.9	106.2	108.3	108.8	125.3
5.00	92.2	92.9	93.8	95.5	98.1	99.7	103.0	104.4	104.5	106.1	105.7	123.8
6.30	92.1	92.5	93.6	95.2	97.9	99.5	102.6	103.9	103.2	104.1	103.5	122.8
8.00	90.5	91.8	93.0	94.8	97.3	98.9	102.1	102.7	101.5	102.0	101.1	121.7
10.0	89.7	91.5	92.5	94.2	96.9	98.4	101.4	101.6	100.4	100.4	99.0	120.8
12.5	89.6	90.5	91.8	93.5	96.2	97.8	100.3	100.1	98.7	98.5	96.6	119.6
16.0	89.0	90.4	91.5	93.1	95.8	97.6	99.5	99.4	97.6	97.1	95.0	118.9
20.0	87.4	89.2	90.6	92.1	94.9	96.4	98.7	97.7	96.3	95.6	93.0	117.7
25.0	87.3	88.7	89.9	92.1	94.8	96.4	97.8	96.8	95.2	94.7	92.0	117.1
31.5	86.1	88.4	90.2	91.7	94.4	95.6	97.4	96.2	94.6	93.3	90.2	116.5
40.0	86.5	88.6	90.1	92.1	94.3	96.1	96.8	96.3	94.1	93.3	89.6	116.5
50.0	86.4	88.1	89.7	91.8	94.1	95.7	96.9	95.8	93.6	92.5	89.1	116.2
63.0	85.8	87.6	89.2	91.4	93.8	94.9	96.4	95.0	92.9	92.0	89.4	115.6
80.0	85.9	87.8	89.9	91.4	94.1	94.8	96.3	95.1	93.8	92.7	89.2	115.8
100.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
OSPL	104.8	105.6	106.5	108.0	110.2	111.6	114.4	117.1	120.2	123.0	122.7	OAPWL = 138.3

STAND X206 RIG ID 705308 TEST DATE 03/09/77 SCALE RATIO 12.0/1 RUN NUMBER 2008 CONDITION 8216

				PRIMARY	FAN		PRIMARY	FAN			PRIMARY	FAN		PRIMARY	FAN
TEMP	77.0(F)	25.0(C)	AREA SQFT	8.640	11.520	SQM	0.803	1.070	MASS FLOW LB/S		443.5	0.0	KG/S	201.2	0.0
PRES	30.11IN	1.02BAR	P.R.	1.00	1.00		1.00	1.00	THRUST,IDL LB		1090.8	0.0	KN	93.816	0.0
WIND D			TEMP (R)	1253.7	514.7	(K)	696.5	285.9	THRUST,MEA LB			0.0	KN	0.0	
WIND V	OMPH	0.0M/S	RHO LB/FT3	0.037	0.078	KG/M3	0.596	1.245	AREA (NOD) SQFT		0.060	0.080	SQM	0.006	0.007
REL H	70.0%		VEL FPS	1532	0.0	M/S	466.7	0.0	W (MODEL) LB/S		3.1	0.0	KG/S	1.4	0.0

FAA DAY

1/3 OCTAVE BAND ENGINE JET NOISE DATA 150.0FT RADIUS (SCALED ENGINE)

BAND CENTER FREQ (KHZ)	MICROPHONE ANGLES IN DEGREES 60	70	80	90	100	110	120	130	140	150	160	POWER 1E-12W
.050	92.0	91.8	92.2	94.0	94.9	96.2	99.3	103.8	109.0	113.0	113.5	
.063	91.9	94.0	94.0	95.0	96.4	96.7	99.6	105.4	110.8	114.4	113.5	148.7
.080	94.1	93.8	94.5	95.7	98.1	99.7	102.5	107.9	112.8	115.7	114.6	149.9
.100	94.8	96.1	96.3	97.5	99.2	100.4	103.2	108.5	113.6	115.7	114.4	151.5
.125	95.9	96.4	97.0	97.8	100.0	101.1	103.6	108.6	113.5	116.1	115.1	151.9
.160	96.1	96.0	96.8	98.2	99.8	101.2	104.4	108.3	112.1	115.1	114.6	152.2
.200	96.0	96.1	96.7	98.2	100.2	101.7	105.0	108.4	110.9	113.9	114.8	151.4
.250	95.2	95.8	96.5	97.9	100.0	101.8	105.2	107.8	109.2	112.0	112.5	150.8
.315	94.2	95.4	96.1	97.7	100.0	101.9	105.1	107.4	107.7	109.8	110.3	149.5
.400	93.7	94.4	95.3	97.0	99.6	101.2	104.5	105.9	106.0	107.6	107.2	148.3
.500	93.5	93.9	95.0	96.6	99.3	100.9	104.0	105.3	104.6	105.5	104.9	146.8
.630	91.9	93.2	94.4	96.2	98.7	100.3	103.5	104.1	102.9	103.4	102.5	145.9
.800	91.1	92.9	93.9	95.6	98.3	99.8	102.8	103.0	101.8	101.8	100.4	144.7
1.00	90.9	91.8	93.1	94.8	97.5	99.1	101.6	101.4	100.0	99.8	97.9	143.7
1.25	90.2	91.6	92.7	94.3	97.0	98.8	100.7	100.6	98.8	98.3	96.2	142.5
1.60	88.5	90.3	91.7	93.2	96.0	97.5	99.8	98.8	97.4	96.7	94.1	141.7
2.00	88.4	89.8	91.0	93.2	95.9	97.5	98.9	97.9	96.3	95.8	93.1	140.4
2.50	87.0	89.3	91.1	92.6	95.3	96.5	98.3	97.1	95.5	94.2	91.1	139.8
3.15	87.2	89.3	90.8	92.8	95.0	96.8	97.5	97.0	94.8	94.0	90.3	139.0
4.00	86.9	88.6	90.2	92.3	94.6	96.2	97.4	96.3	94.1	93.0	89.6	138.8
5.00	86.1	87.9	89.5	91.7	94.1	95.2	96.7	95.3	93.1	92.3	88.7	138.2
6.30	85.9	87.8	89.9	91.4	94.1	94.8	96.3	95.1	93.8	92.7	89.2	137.5
8.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	137.3
10.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
												0.0

OAPWL = 161.1

OSPL	106.0	106.8	107.6	109.1	111.4	112.9	115.7	118.4	121.5	124.2	123.7
PNL	114.3	115.8	117.1	118.9	121.1	122.7	124.5	125.2	125.6	127.3	126.7

200. SIDELINE

PNL	110.3	112.5	114.2	116.1	118.3	119.4	120.5	120.0	119.0	118.4	114.3

370. SIDELINE

PNL	104.2	106.5	108.2	110.1	112.3	113.4	114.5	114.0	113.2	112.5	108.4

800. SIDELINE

PNL	95.6	98.0	99.8	101.7	103.9	104.9	106.1	106.2	105.5	104.8	100.4

2128. SIDELINE

PNL	84.0	86.0	87.6	89.5	91.8	92.7	94.6	94.9	94.5	93.9	89.2

STAND X206 RIG ID 705308 TEST DATE 03/09/77 SCALE RATIO 12.0/1 RUN NUMBER 20081 CONDITION 8217

				PRIMARY	FAN		PRIMARY	FAN			PRIMARY	FAN		PRIMARY	FAN
TEMP 84°F 28.9°C	AREA	SQFT	0.0	0.0	SQM	0.0	0.0	MASS FLOW	LB/S	0.0	0.0	KG/S	0.0	0.0
PRES 30.11IN 1.02BAR	P.R.		2.49	1.00		2.49	1.00	THRUST,IDL	LB	249.8	0.1	KN	1.111	0.001
WIND D	TEMP	(R)	1251.7	519.7	(K)	695.4	288.7	THRUST,MEA	LB		0.0	KN	0.0	
WIND V OMPH 0.0M/S	RHO	LB/FT3	0.041	0.077	KG/M3	0.650	1.233	AREA (MOD)	SQFT	0.060	0.080	SQM	0.006	0.007
REL H 17 30	VEL	FPS	1866.4	24.3	M/S	568.9	7.4	W (MODEL)	LB/S	4.3	0.1	KG/S	2.0	0.1

1/3 OCTAVE BAND MODEL JET NOISE DATA 15.0FT RADIUS THEORETICAL DAY SPL - (MODEL)

BAND CENTER FREQ (KHZ)	MICROPHONE ANGLES IN DEGREES 60	70	80	90	100	110	120	130	140	150	160	POWER 1E-12W
.050	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
.063	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
.080	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
.100	79.4	82.9	84.9	85.2	84.6	85.7	87.5	89.2	91.0	95.5	99.9	111.9
.125	80.8	84.8	84.5	85.4	87.1	88.0	87.1	90.2	93.6	96.9	100.1	113.0
.160	85.4	88.4	86.6	86.8	85.5	86.6	87.8	89.3	94.6	99.2	102.6	114.6
.200	84.2	84.8	85.8	87.4	88.6	89.2	91.6	93.1	99.1	103.5	105.7	118.1
.250	85.3	86.4	87.3	89.2	90.0	91.0	93.1	95.9	101.1	105.8	108.2	120.3
.315	88.2	87.9	89.3	91.0	92.2	93.1	95.5	99.4	103.8	108.6	112.2	123.4
.400	91.4	92.3	92.7	93.9	95.8	96.9	99.1	102.9	108.1	112.7	115.9	127.3
.500	94.8	93.2	94.4	95.8	96.1	97.5	100.6	104.7	111.1	115.7	115.8	129.4
.630	96.3	95.8	95.9	98.1	98.6	100.0	103.1	108.1	114.0	117.8	118.0	131.8
.800	95.8	97.4	97.6	98.8	100.6	100.6	103.3	110.2	116.1	119.6	117.8	133.3
1.00	97.4	97.6	98.0	99.4	101.9	103.6	106.3	112.8	118.4	120.4	118.9	134.9
1.25	98.4	99.8	100.1	101.1	103.3	104.4	107.4	114.2	119.7	120.7	118.6	135.6
1.60	99.0	100.2	100.6	101.6	103.6	105.0	108.0	114.9	120.7	121.4	119.0	136.4
2.00	100.7	100.3	100.8	102.2	103.9	105.4	109.1	115.2	120.9	121.8	118.8	136.6
2.50	101.1	100.6	101.0	102.7	104.3	106.2	110.0	115.2	121.0	122.0	119.4	136.9
3.15	105.3	102.4	101.9	103.1	104.6	106.5	110.6	114.7	121.4	122.4	118.6	137.1
4.00	110.2	107.9	104.5	103.5	104.9	106.8	110.7	114.1	119.9	120.0	115.9	135.8
5.00	110.9	110.7	109.0	105.7	105.2	106.5	110.3	112.9	118.3	117.7	113.2	134.8
6.30	108.5	109.3	110.1	109.7	107.4	107.0	110.3	112.4	117.3	116.3	111.4	134.2
8.00	106.5	106.7	107.7	109.2	109.6	108.0	110.1	111.4	115.7	114.7	109.7	133.2
10.0	104.9	106.4	106.2	107.0	109.0	109.1	110.4	110.7	114.9	113.5	108.2	132.5
12.5	104.7	105.1	105.6	106.2	107.3	109.2	110.6	109.8	113.4	112.2	106.6	131.6
16.0	103.5	104.6	105.1	105.7	107.1	108.1	110.6	109.4	112.5	111.0	105.5	130.9
20.0	101.8	103.3	104.0	104.7	106.2	106.9	109.5	108.3	111.2	110.0	104.1	129.8
25.0	101.3	102.4	103.5	104.7	106.2	107.2	108.4	107.7	110.5	109.4	103.7	129.4
31.5	100.1	102.0	103.6	104.5	105.9	106.4	108.3	107.2	110.4	109.0	102.7	129.0
40.0	100.1	102.0	103.5	104.8	106.0	106.8	107.6	107.4	110.3	109.5	102.8	129.0
50.0	99.9	101.4	103.0	104.7	105.8	106.9	108.3	107.4	110.2	109.4	102.8	129.1
63.0	98.9	100.7	102.3	104.0	105.8	106.5	107.8	107.5	110.2	109.7	102.4	129.9
80.0	98.8	100.6	102.9	103.9	106.0	106.6	108.3	107.9	111.9	110.8	103.4	129.6
100.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
OSPL	117.7	117.8	117.9	118.3	119.3	120.0	122.5	125.4	130.7	131.5	129.1	OAPWL = 147.3

STAND X206 RIG ID 705308 TEST DATE 03/09/77 SCALE RATIO 12.0/1 RUN NUMBER 2008 CONDITION 8217

					PRIMARY	FAN		PRIMARY	FAN			PRIMARY	FAN		PRIMARY	FAN
TEMP	77.0(F)	25.0(C)	AREA	SQFT	8.640	11.520	SQM	0.803	1.070	MASS FLOW	LB/S	620.6	21.6	KG/S	281.5	9.8
PRES	30.11IN	1.02BAR	P.R.		2.49	1.00		2.49	1.00	THRUST,IDL	LB	35973.7	16.3	KN	160.018	0.072
WIND D			TEMP	(R)	1251.7	519.7	(K)	695.4	288.7	THRUST,MEA	LB		0.0	KN	0.0	
WIND V	OMPH	0.0M/S	RHO	LB/FT3	0.041	0.077	KG/M3	0.650	1.233	AREA (MOD)	SQFT	0.060	0.080	SQM	0.006	0.007
REL H	70.0%		VEL	FPS	1866.4	24.3	M/S	568.9	7.4	W (MODEL)	LB/S	4.3	0.1	KG/S	2.0	0.1

FAA DAY 1/3 OCTAVE BAND ENGINE JET NOISE DATA 150.0FT RADIUS (SCALED ENGINE)

BAND CENTER FREQ (KHZ)	MICROPHONE ANGLES IN DEGREES 60	70	80	90	100	110	120	130	140	150	160	POWER 1E-12H
.050	97.9	97.4	97.5	99.7	100.2	101.6	104.7	109.7	115.6	119.4	119.6	154.9
.063	97.4	99.0	99.2	100.4	102.2	102.2	104.9	111.8	117.7	121.2	119.4	156.5
.080	99.0	99.2	99.6	101.0	103.5	105.2	107.9	114.4	120.0	122.0	120.5	158.0
.100	100.0	101.4	101.7	102.7	104.9	106.0	109.0	115.8	121.3	122.3	120.2	158.8
.125	100.6	101.8	102.2	103.2	105.2	106.6	109.6	116.5	122.3	123.0	120.6	159.6
.160	102.2	101.8	102.3	103.7	105.4	106.9	110.6	116.7	122.4	123.3	120.3	159.8
.200	102.6	102.1	102.5	104.2	105.8	107.7	111.5	116.7	122.5	123.5	120.9	160.0
.250	106.8	103.9	103.4	104.6	106.1	108.0	112.1	116.2	122.9	123.9	120.1	160.2
.315	111.7	109.4	106.0	105.0	106.4	108.3	112.2	115.6	121.4	121.5	117.4	158.9
.400	112.4	112.2	110.5	107.2	106.7	108.0	111.8	114.4	119.8	119.2	114.7	157.9
.500	109.9	110.7	111.5	111.1	108.8	108.4	111.7	113.8	118.7	117.7	112.8	157.3
.630	107.9	108.1	109.1	110.6	111.0	109.4	111.5	112.8	117.1	116.1	111.1	156.2
.800	105.3	107.8	107.6	108.4	110.4	110.5	111.8	112.1	116.3	114.9	109.6	155.5
1.00	106.0	106.4	106.9	107.5	108.6	110.5	111.9	111.1	114.7	113.5	107.9	154.5
1.25	104.7	105.8	106.3	106.9	108.3	109.3	111.8	110.6	113.7	112.2	106.7	153.8
1.60	102.9	104.4	105.1	105.8	107.3	108.0	110.6	109.4	112.3	111.1	105.2	152.5
2.00	102.4	103.5	104.6	105.8	107.3	108.3	109.5	108.8	111.6	110.5	104.8	152.0
2.50	101.0	102.9	104.5	105.4	106.8	107.3	109.2	108.1	111.3	109.9	103.6	151.5
3.15	100.8	102.7	104.2	105.5	106.7	107.5	108.3	108.1	111.0	110.2	103.5	151.3
4.00	100.4	101.9	103.5	105.2	106.3	107.4	108.8	107.9	110.7	109.9	103.3	151.1
5.00	99.2	101.0	102.6	104.3	106.1	106.8	108.1	107.8	110.5	110.0	102.7	150.7
6.30	98.8	100.6	102.9	103.9	106.0	106.6	108.3	107.9	111.9	110.8	103.4	151.1
8.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

CAPWL = 170.1

OSPL	119.1	119.1	119.1	119.5	120.4	121.2	123.7	126.7	132.0	132.8	130.0
PNL	127.8	128.6	129.5	130.4	131.6	132.4	134.3	135.1	139.1	139.0	134.7

200. SIDELINE

PNL	123.9	125.3	126.6	127.7	128.7	129.1	130.2	129.9	132.2	130.0	122.1

370. SIDELINE

PNL	119.1	119.3	120.6	121.6	122.7	123.0	124.0	123.7	126.3	124.0	116.0

800. SIDELINE

PNL	110.3	111.5	112.1	113.2	114.2	114.4	115.6	115.2	118.4	115.9	107.7

2128. SIDELINE

PNL	98.9	100.2	100.6	101.1	101.5	101.5	102.8	103.8	107.0	104.4	96.1

STAND X206 RIG ID 705308 TEST DATE 03/09/77 SCALE RATIO 12.0/1 RUN NUMBER 20081 CONDITION 8218

					PRIMARY	FAN		PRIMARY	FAN			PRIMARY	FAN		PRIMARY	FAN
TEMP	84°F	28.9°C	AREA	SQFT	0.0	0.0	SQM	0.0	0.0	MASS FLOW	LB/S	0.0	0.0	KG/S	0.0	0.0
PRES	30.11IN	1.02BAR	P.R.		3.18	1.00		3.18	1.00	THRUST,IDL	LB	356.3	0.3	KN	1.585	0.002
WIND D			TEMP	(R)	1251.7	521.7	(K)	695.4	289.8	THRUST,MEA	LB		0.0	KN	0.0	
WIND V	OMPH	0.0M/S	RHO	LB/FT3	0.043	0.077	KG/M3	0.693	1.229	AREA (MOD)	SQFT	0.060	0.080	SQM	0.006	0.007
REL H	17 %		VEL	FPS	2071.1	42.2	M/S	631.3	12.9	W (MODEL)	LB/S	5.5	0.3	KG/S	2.5	0.1

1/3 OCTAVE BAND MODEL JET NOISE DATA 15.0FT RADIUS THEORETICAL DAY SPL - (MODEL)

BAND CENTER FREQ (KHZ)	MICROPHONE ANGLES IN DEGREES 60	70	80	90	100	110	120	130	140	150	160	POWER 1E-12W
.050	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
.063	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
.080	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
.100	93.7	97.0	98.9	98.8	98.0	99.4	90.9	92.7	94.6	99.1	103.7	115.6
.125	85.4	89.1	88.5	89.5	91.2	91.9	90.6	93.7	97.4	101.1	104.4	117.1
.160	90.4	92.9	90.5	90.6	89.4	90.3	91.4	92.6	98.2	103.2	106.7	116.6
.200	88.9	89.1	90.0	91.2	92.3	93.1	95.2	96.7	102.6	107.6	109.8	122.0
.250	89.1	89.9	90.9	92.9	93.8	94.7	96.2	99.3	104.6	109.6	112.6	124.2
.315	92.5	91.7	93.0	94.3	96.0	96.7	98.9	102.6	107.0	112.5	116.6	127.3
.400	95.8	96.0	96.4	97.3	99.3	100.4	102.3	106.2	111.7	116.6	120.7	131.2
.500	98.6	97.1	98.1	99.0	99.6	101.0	103.5	107.8	115.0	119.8	120.0	133.3
.630	100.2	99.4	99.7	101.3	102.2	103.3	106.3	111.6	118.0	121.9	122.0	135.7
.800	99.4	100.2	100.8	102.0	103.8	103.9	106.5	113.4	119.8	123.5	121.5	137.0
1.00	100.6	100.7	101.4	102.5	104.9	106.8	109.6	116.4	122.7	124.4	122.4	138.8
1.25	102.1	102.3	103.0	103.9	106.1	107.4	110.6	117.9	123.9	124.5	121.8	139.5
1.60	102.0	103.3	103.5	104.3	106.3	108.0	111.1	118.7	125.0	125.2	122.1	140.3
2.00	106.8	105.8	105.0	106.0	109.1	108.8	112.3	119.5	125.7	126.4	124.0	141.3
2.50	114.1	109.8	106.5	105.9	107.5	109.1	113.2	119.9	126.1	124.5	120.1	140.8
3.15	116.9	116.6	113.5	108.9	108.2	109.6	113.7	119.1	125.6	122.7	117.5	140.6
4.00	115.6	117.5	118.2	115.8	111.2	110.9	114.1	118.7	125.0	120.9	115.9	140.8
5.00	113.7	114.0	115.7	117.5	115.2	112.0	114.1	117.9	123.2	119.0	113.4	139.7
6.30	113.5	113.4	112.8	114.6	117.3	114.7	114.9	117.5	122.0	117.6	111.8	139.0
8.00	111.8	112.5	113.1	112.6	114.5	116.2	115.8	116.8	120.4	115.9	110.1	138.1
10.0	110.4	112.1	112.2	112.9	113.2	115.2	116.9	116.3	119.7	115.0	108.8	137.6
12.5	110.1	111.1	111.6	112.0	113.3	114.0	117.0	115.8	118.4	113.5	107.4	136.9
16.0	109.3	110.6	111.3	111.7	112.8	113.5	116.1	115.3	117.7	112.7	106.7	136.2
20.0	107.9	109.7	110.4	110.8	112.1	112.6	114.6	114.2	116.8	111.7	105.4	135.2
25.0	107.6	109.0	110.0	110.9	112.1	113.0	114.2	113.8	116.1	111.4	105.2	135.0
31.5	107.1	108.9	110.4	110.9	112.2	112.3	114.1	113.6	116.1	111.1	104.4	134.9
40.0	107.2	109.1	110.4	111.5	112.5	113.2	113.8	114.1	116.2	111.9	104.5	135.1
50.0	107.3	108.9	110.3	111.5	112.8	113.3	114.7	114.1	116.2	111.5	104.8	135.3
63.0	106.8	108.7	110.2	111.3	112.9	113.5	114.9	114.4	116.6	111.9	104.5	135.5
80.0	107.4	109.2	111.0	111.9	113.6	114.0	115.8	115.6	118.3	113.2	105.5	136.5
100.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
											OAPWL =	151.8
OSPL	124.0	124.6	124.8	125.0	125.5	125.7	127.6	130.2	135.4	134.5	132.1	

STAND X206 RIG ID 705308 TEST DATE 03/09/77 SCALE RATIO 12.0/1 RUN NUMBER 2009 CONDITION 8218

					PRIMARY	FAN		PRIMARY	FAN				PRIMARY	FAN		PRIMARY	FAN
TEMP	77.0(F)	25.0(C)	AREA	SQFT	8.640	11.520	SQM	0.803	1.070	MASS FLOW	LB/S	797.8	37.3	KG/S	361.9	16.9
PRES	30.11IN	1.02BAR	P.R.		3.18	1.00		3.18	1.00	THRUST,IDL	LB	51311.8	48.9	KN	228.245	0.218
WIND D			TEMP	(R)	1251.7	521.7	(K)	695.4	289.8	THRUST,MEA	LB		0.0	KN	0.0	
WIND V	OMPH	0.0M/S	RHO	LB/FT3	0.043	0.077	KG/M3	0.693	1.229	AREA (MOD)	SQFT	0.060	0.080	SQM	0.006	0.007
REL H	70.0%		VEL	FPS	2071.1	42.2	M/S	631.3	12.9	W (MODEL)	LB/S	5.5	0.3	KG/S	2.5	0.1

FAA DAY 1/3 OCTAVE BAND ENGINE JET NOISE DATA 150.0FT RADIUS (SCALED ENGINE)

BAND CENTER FREQ (KHZ)	MICROPHONE ANGLES IN DEGREES 60	70	80	90	100	110	120	130	140	150	160	POWER 1E-12W
.050	101.8	101.0	101.3	102.9	103.8	104.9	107.9	113.2	119.6	123.5	123.6	158.9
.063	101.0	101.8	102.4	103.6	105.4	105.5	108.1	115.0	121.4	125.1	123.1	160.2
.080	102.2	102.3	103.0	104.1	106.5	108.4	111.2	118.0	124.3	126.0	124.0	162.0
.100	103.7	103.9	104.6	105.5	107.7	109.0	112.2	119.5	125.5	126.1	123.4	162.6
.125	103.6	104.9	105.1	105.9	107.9	109.6	112.7	120.3	126.6	126.8	123.7	163.5
.160	106.3	107.3	106.5	107.5	110.6	110.3	113.8	121.0	127.2	127.9	125.5	164.4
.200	115.6	111.3	108.0	107.4	109.0	110.6	114.7	121.4	127.6	126.0	121.6	164.0
.250	118.4	118.1	115.0	110.4	109.7	111.1	115.2	120.6	127.1	124.2	119.0	163.7
.315	117.1	119.0	119.7	117.3	112.7	112.4	115.6	120.2	126.5	122.4	117.4	163.9
.400	115.2	115.5	117.2	119.0	116.7	113.5	115.6	119.4	124.7	120.5	114.9	162.8
.500	114.9	114.8	114.2	116.0	118.7	116.1	116.3	119.9	123.4	119.0	113.2	162.0
.630	113.2	113.9	114.5	114.0	115.9	117.6	117.2	118.2	121.8	117.3	111.5	161.1
.800	111.8	113.5	113.6	114.3	114.6	116.6	118.3	117.7	121.1	116.4	110.2	160.5
1.00	111.4	112.4	112.9	113.3	114.6	115.3	118.3	117.1	119.7	114.8	108.7	159.8
1.25	110.5	111.8	112.5	112.9	114.0	114.7	117.3	116.5	118.9	113.9	107.9	159.1
1.60	109.8	110.8	111.5	111.9	113.2	113.7	115.7	115.3	117.9	112.8	106.5	157.9
2.00	109.7	110.1	111.1	112.0	113.2	114.1	115.3	114.9	117.2	112.5	106.3	157.6
2.50	108.0	109.8	111.3	111.8	113.1	113.2	115.0	114.5	117.0	112.0	105.3	157.3
3.15	107.9	109.8	111.1	112.2	113.2	113.9	114.5	114.8	116.9	112.6	105.2	157.4
4.00	107.8	109.4	110.8	112.0	113.3	113.8	115.2	114.6	116.7	112.0	105.3	157.3
5.00	107.1	109.0	110.5	111.6	113.2	113.8	115.2	114.7	116.9	112.2	104.8	157.3
6.30	107.4	109.2	111.0	111.9	113.6	114.0	115.8	115.6	118.3	113.2	105.5	158.0
8.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

OAPWL = 174.6

OSPL	125.4	125.9	126.1	126.1	126.6	126.8	128.7	131.5	136.7	135.7	132.8
PNL	134.2	135.4	136.2	136.9	137.9	139.3	140.0	141.0	144.4	141.0	136.6

200. SIDELINE

PNL	130.1	132.1	133.4	134.2	135.0	135.0	135.9	135.7	137.5	131.9	124.0

370. SIDELINE

PNL	124.0	126.1	127.3	128.1	128.9	128.9	129.6	129.5	131.3	125.9	117.9

800. SIDELINE

PNL	116.0	117.9	119.0	119.6	120.4	120.3	120.9	120.8	123.2	117.9	109.7

2128. SIDELINE

PNL	104.7	106.6	107.6	108.0	108.1	107.3	107.7	108.7	111.7	106.5	98.3

STAND X206 RIG ID 705308 TEST DATE 02/25/77 SCALE RATIO 12.0/1 RUN NUMBER 20082 CONDITION 8219

				PRIMARY	FAN		PRIMARY	FAN
TEMP	53°F	11.7°C	AREA SQFT	0.0	0.0	SQM	0.0	0.0
PRES	29.41IN	1.008AR	P.R.	1.00	1.29		1.00	1.29
WIND D			TEMP (R)	1167.7	1258.7	(K)	648.7	699.3
WIND V	0MPH	0.0M/S	RHO LB/FT3	0.034	0.034	KG/M3	0.549	0.544
REL H	46 %		VEL FPS	1126.6	1027.2	M/S	35.5	313.1

		PRIMARY	FAN		PRIMARY	FAN
MASS FLOW	LB/S	0.0	0.0	KG/S	0.0	0.0
THRUST,IDL	LB	0.9	92.5	KN	0.004	0.412
THRUST,MEA	LB		0.0	KN	0.0	
AREA (MOD)	SQFT	0.060	0.080	SQM	0.006	0.007
W (MODEL)	LB/S	0.2	2.9	KG/S	0.1	1.3

1/3 OCTAVE BAND MODEL JET NOISE DATA 15.0FT RADIUS THEORETICAL DAY SPL - (MODEL)

BAND CENTER FREQ (KHZ)	MICROPHONE ANGLES IN DEGREES 60	70	80	90	100	110	120	130	140	150	160	POWER 1E-12W
.050	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
.063	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
.080	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
.100	69.9	73.1	75.7	76.3	75.9	76.8	79.5	81.7	82.6	85.5	88.7	102.5
.125	71.6	76.9	77.1	75.9	77.0	78.4	77.5	81.6	85.1	87.2	88.8	103.6
.160	73.2	76.5	76.9	77.1	75.4	77.4	78.5	80.3	84.5	88.4	91.5	104.1
.200	75.5	77.1	77.5	78.2	78.8	80.1	82.5	84.3	88.9	93.2	95.0	108.0
.250	79.0	79.3	79.5	80.2	80.1	81.2	83.5	86.9	90.8	94.4	95.5	109.4
.315	78.8	79.4	80.8	81.6	81.7	83.0	85.6	89.1	92.6	96.5	99.3	111.7
.400	80.6	81.0	83.1	84.0	85.2	87.1	89.3	92.3	95.8	99.4	101.7	114.6
.500	82.2	82.1	83.6	85.3	85.7	86.9	88.9	92.2	97.0	100.8	100.3	115.1
.630	81.9	82.8	84.9	85.9	86.4	88.3	90.6	93.5	96.9	100.1	100.0	115.2
.800	82.2	82.9	83.9	85.3	85.9	87.8	89.8	92.9	96.2	98.4	98.1	114.6
1.00	81.7	82.7	84.3	85.7	86.6	88.6	90.6	93.3	95.6	96.8	95.1	113.4
1.25	81.4	82.6	84.3	85.2	86.3	88.4	90.6	92.9	94.9	94.3	91.7	112.3
1.60	81.1	82.3	84.1	85.2	86.1	88.2	90.5	92.5	93.6	92.7	90.1	111.8
2.00	80.6	82.3	84.0	85.2	86.3	88.3	90.4	92.2	92.3	90.5	87.2	111.0
2.50	80.3	82.1	84.0	85.2	86.1	88.1	90.2	91.5	91.2	89.0	86.2	110.5
3.15	80.4	81.7	83.3	84.6	85.6	87.6	89.5	90.3	89.3	87.2	84.4	109.5
4.00	80.4	81.6	82.9	84.3	85.4	87.2	88.9	89.4	88.2	85.4	82.5	108.8
5.00	80.0	80.6	82.1	83.3	84.4	86.2	87.7	87.9	86.2	83.4	80.6	107.5
6.30	79.5	80.0	81.6	83.0	83.7	85.5	87.0	86.7	84.9	82.4	78.9	106.7
8.00	77.7	79.2	80.8	82.0	83.0	84.7	86.2	85.4	83.5	81.1	77.9	105.7
10.0	77.1	78.3	80.1	81.4	82.2	83.7	85.2	84.4	82.4	80.4	77.2	104.8
12.5	76.5	77.3	79.1	80.4	81.1	82.8	84.1	83.0	81.1	79.4	76.4	103.7
16.0	76.0	76.9	78.7	79.7	80.8	82.1	83.3	82.3	80.6	78.7	75.8	103.1
20.0	74.6	76.0	77.7	78.9	79.7	80.9	82.1	81.2	79.6	77.5	74.2	102.0
25.0	74.0	75.3	77.2	78.6	79.0	80.7	81.2	80.3	78.9	76.7	73.6	101.4
31.5	73.1	75.0	76.8	78.0	78.8	80.0	81.1	79.9	78.4	76.2	72.5	101.0
40.0	72.9	74.7	76.2	77.8	78.3	79.9	80.6	79.7	78.0	75.9	72.2	100.5
50.0	72.7	74.5	76.3	77.6	77.9	79.3	80.3	79.4	77.5	75.4	72.1	100.4
63.0	71.8	73.7	75.7	76.8	77.6	78.9	79.5	78.6	77.0	75.5	72.6	99.8
80.0	72.0	73.4	75.8	76.6	77.8	78.7	79.9	78.8	77.3	76.6	74.2	99.9
100.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
OSPL	93.5	94.6	96.1	97.3	98.1	99.9	101.8	103.7	105.8	107.9	108.3	OAPWL = 124.5

STAND X206 RIG ID 705308 TEST DATE 02/25/77 SCALE RATIO 12.0/1 RUN NUMBER 2008 CONDITION 8219

			PRIMARY	FAN			PRIMARY	FAN			PRIMARY	FAN		PRIMARY	FAN
TEMP 77.0(F) 25.0(C)	AREA	SQFT	8.640	11.520	SQM	0.803	1.070	MASS FLOW	LB/S	34.5	417.6	KG/S	15.7	189.4
PRES 29.41IN 1.00BAR	P.R.		1.00	1.29		1.00	1.29	THRUST,IDL	LB	125.0	13322.2	KN	0.556	59.260
WIND D	TEMP	(R)	1167.7	1258.7	(K)	648.7	699.3	THRUST,MEA	LB		0.0	KN	0.0	
WIND V 0MPH 0.0M/S	RHO	LB/FT3	0.034	0.034	KG/M3	0.549	0.544	AREA (MOD)	SQFT	0.060	0.080	SQM	0.006	0.007
REL H 70.0%	VEL	FPS	336.6	1027.2	M/S	35.5	313.1	W (MODEL)	LB/S	0.2	2.9	KG/S	0.1	1.3

FAA DAY

1/3 OCTAVE BAND ENGINE JET NOISE DATA 150.0FT RADIUS (SCALED ENGINE)

BAND CENTER FREQ (KHZ)	MICROPHONE ANGLES IN DEGREES 50	70	80	90	100	110	120	130	140	150	160	POWER 1E-12W
.050	83.5	84.4	86.5	87.5	88.6	89.9	92.2	95.1	98.5	101.7	101.6	
.063	83.8	84.5	85.5	86.9	87.5	89.4	91.4	94.5	97.8	100.0	99.7	138.3
.080	83.3	84.3	85.4	87.3	88.2	90.2	92.2	94.9	97.2	98.4	96.7	137.2
.100	83.0	84.2	85.9	86.8	87.9	90.0	92.2	94.5	96.5	95.9	93.3	136.6
.125	82.7	83.9	85.7	86.8	87.7	89.8	92.1	94.1	95.2	94.3	91.7	135.8
.160	82.1	83.8	85.5	86.7	87.8	89.8	91.9	93.7	93.8	92.0	88.7	134.9
.200	82.3	83.6	85.5	86.7	87.6	89.6	91.7	93.0	92.7	90.5	87.7	134.1
.250	81.9	83.2	84.8	86.1	87.1	89.1	91.0	91.8	90.8	88.7	85.9	133.6
.315	81.9	83.1	84.4	85.8	86.9	88.7	90.4	90.9	89.7	86.9	84.0	132.6
.400	81.5	82.1	83.6	84.8	85.9	87.7	89.2	89.4	87.7	84.9	82.1	131.9
.500	80.9	81.4	83.0	84.4	85.1	86.9	88.4	88.1	86.3	83.8	80.3	130.6
.630	79.1	80.6	82.2	83.4	84.4	86.1	87.6	86.8	84.9	82.5	79.3	129.7
.800	78.5	79.7	81.5	82.8	83.6	85.1	86.6	85.8	83.8	81.8	78.6	128.7
1.00	77.8	78.6	80.4	81.7	82.4	84.1	85.4	84.3	82.4	80.7	77.7	127.8
1.25	77.2	78.1	79.9	80.9	82.0	83.3	84.5	83.5	81.8	79.9	77.0	126.6
1.60	75.7	77.1	78.8	80.0	80.8	82.0	83.2	82.3	80.7	78.6	75.3	125.9
2.00	75.1	76.4	78.3	79.7	80.1	81.8	82.3	81.4	80.0	77.8	74.7	124.8
2.50	74.0	75.9	77.7	78.9	79.7	80.9	82.0	80.8	79.3	77.1	73.4	124.1
3.15	73.6	75.4	76.9	78.2	79.6	80.6	80.7	80.4	78.7	76.6	72.9	123.5
4.00	73.2	75.0	76.8	78.1	78.4	79.8	80.8	79.9	78.0	75.9	72.6	122.8
5.00	72.1	74.0	76.0	77.1	77.9	79.2	79.8	78.9	77.3	75.8	72.9	122.4
6.30	72.0	73.4	75.8	76.6	77.8	78.7	79.9	78.8	77.3	76.6	74.2	121.7
8.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	121.4
10.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
												0.0

OAPWL = 145.7

OSPL	93.8	94.9	96.6	97.8	98.7	100.6	102.4	104.0	105.4	106.4	105.4
PNL	101.2	102.7	104.4	105.7	106.5	108.1	109.2	109.2	108.4	107.5	105.5

200. SIDELINE

PNL	97.1	99.4	101.5	103.0	103.6	104.8	105.2	104.0	101.8	98.5	92.8

370. SIDELINE

PNL	90.9	93.2	95.4	96.9	97.5	98.7	99.2	98.1	95.9	92.3	86.0

800. SIDELINE

PNL	82.5	84.8	87.1	88.6	89.2	90.3	90.9	90.1	87.9	83.6	76.5

2128. SIDELINE

PNL	70.9	73.1	75.4	76.8	77.6	78.8	79.4	78.6	76.0	71.2	63.5

STAND X206 RIG ID 705308 TEST DATE 02/25/77 SCALE RATIO 12.0/1 RUN NUMBER 20082 CONDITION 8220

				PRIMARY	FAN		PRIMARY	FAN			PRIMARY	FAN		PRIMARY	FAN
TEMP	53°F 11.7°C	AREA	SQFT	0.0	0.0	SQM	0.0	0.0	MASS FLOW	LB/S	0.0	0.0	KG/S	0.0	0.0
PRES	29.41IN 1.006AR	P.R.		1.01	1.79		1.01	1.79	THRUST,IDL	LB	2.6	228.5	KN	0.013	1.016
WIND D		TEMP	(R)	1215.7	1263.7	(K)	675.4	702.1	THRUST,MEA	LB		0.0	KN	0.0	
WIND V	0MPH 0.0M/S	RHO	LB/FT3	0.023	0.037	KG/M3	0.529	0.590	AREA (MOD)	SQFT	0.060	0.060	SQM	0.006	0.007
REL H	45 %	VEL	FPS	215.7	1529.6	M/S	65.7	466.2	W (MODEL)	LB/S	0.4	4.8	KG/S	0.2	2.2

1/3 OCTAVE BAND MODEL JET NOISE DATA 15.0FT RADIUS THEORETICAL DAY SPL - (MODEL)

BAND CENTER FREQ (KHZ)	MICROPHONE ANGLES IN DEGREES 60	70	80	90	100	110	120	130	140	150	160	POWER 1E-12W
.050	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
.063	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
.080	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
.100	79.3	83.0	84.8	85.0	84.8	86.1	87.5	89.5	90.9	94.5	98.6	111.4
.125	80.3	84.8	84.6	84.6	86.2	87.6	86.6	89.7	93.4	96.3	98.8	112.4
.160	83.0	85.6	85.3	85.5	84.2	86.2	87.3	88.8	93.7	96.0	101.5	113.5
.200	85.2	85.6	86.4	86.9	87.3	89.1	90.7	92.7	98.0	102.8	105.2	117.4
.250	88.3	88.5	89.5	90.0	89.4	90.5	92.0	95.4	100.4	104.8	106.9	119.5
.315	87.5	87.3	88.8	90.0	90.3	92.0	94.3	98.2	102.6	107.0	110.3	121.9
.400	89.6	90.3	91.2	91.8	93.3	95.3	97.8	102.2	106.9	111.0	113.8	125.7
.500	93.3	92.1	92.2	93.7	94.3	96.4	99.2	103.2	109.4	114.0	113.2	127.5
.630	92.1	92.7	94.9	96.6	96.4	98.1	101.3	106.1	111.3	114.9	114.6	129.0
.800	93.8	94.9	95.3	96.8	97.4	98.9	101.2	106.6	112.1	115.6	114.9	129.6
1.00	94.9	95.7	96.2	97.0	98.3	101.0	103.2	107.5	112.6	115.8	115.8	130.2
1.25	94.6	96.1	97.1	97.7	98.9	100.6	103.4	107.5	111.7	113.9	114.1	129.1
1.60	94.2	95.3	96.5	97.0	98.2	100.7	103.3	107.3	110.2	112.6	113.0	128.0
2.00	93.3	94.4	95.8	97.0	98.2	100.8	103.8	107.2	109.0	110.1	110.6	126.7
2.50	92.8	94.0	95.4	97.0	98.3	101.0	104.0	106.8	108.1	108.6	109.7	126.0
3.15	92.6	93.7	95.1	96.5	98.1	101.0	104.0	106.0	107.2	107.7	108.0	125.3
4.00	92.2	93.4	94.7	96.3	98.1	100.8	103.7	105.4	105.7	105.7	105.0	124.3
5.00	91.9	92.5	94.1	95.6	97.3	100.2	102.6	104.0	104.0	103.4	102.9	123.0
6.30	91.9	92.2	93.8	95.6	96.9	99.6	102.2	103.2	102.6	101.6	100.6	122.0
8.00	90.4	91.7	93.3	95.0	96.5	99.2	101.6	101.9	100.8	99.6	98.5	121.0
10.0	89.8	91.0	92.8	94.5	96.2	98.7	100.8	100.7	99.2	98.2	97.5	120.1
12.5	89.0	90.3	92.0	93.9	95.2	97.9	99.7	99.1	97.5	96.8	96.4	118.9
16.0	88.6	89.9	91.9	93.3	95.0	97.4	99.1	98.6	96.7	96.1	95.9	118.4
20.0	87.0	88.8	90.8	92.3	93.9	95.9	97.8	97.0	95.8	94.9	94.8	117.1
25.0	86.3	87.9	90.2	92.2	93.2	95.8	96.8	96.0	95.1	94.2	94.4	116.5
31.5	85.3	87.4	89.7	91.2	92.8	94.8	96.3	95.4	94.6	93.4	93.0	115.8
40.0	84.8	87.1	88.9	91.0	92.0	94.6	95.2	95.2	94.2	93.2	92.6	115.3
50.0	84.4	86.3	88.7	90.4	91.4	93.8	95.1	94.5	93.6	92.5	91.9	114.8
63.0	83.4	85.4	88.0	89.4	90.8	92.9	94.1	93.6	92.7	92.1	91.4	113.9
80.0	83.8	85.3	87.9	89.2	90.8	92.7	94.2	93.6	92.8	92.7	92.5	114.0
100.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
OAPWL =												139.0
OSPL	105.3	106.3	107.6	108.9	110.1	112.5	115.0	117.7	120.9	123.7	123.9	

STAND X206 RIG ID 705308 TEST DATE 02/25/77 SCALE RATIO 12.0/1 RUN NUMBER 2008 CONDITION 8220

					PRIMARY	FAN		PRIMARY	FAN			PRIMARY	FAN		PRIMARY	FAN
TEMP	77.0(F)	25.0(C)	AREA	SQFT	8.640	11.520	SQM	0.803	1.070	MASS FLOW	LB/S	61.5	692.6	KG/S	27.9	314.2
PRES	29.41IN	1.00BAR	P.R.		1.01	1.79		1.01	1.79	THRUST,IDL	LB	411.4	32902.2	KN	1.830	146.356
WIND D			TEMP	(R)	1215.7	1263.7	(K)	675.4	702.1	THRUST,MEA	LB		0.0	KN	0.0	
WIND V	0MPH	0.0M/S	RHO	LB/FT3	0.033	0.037	KG/M3	0.529	0.590	AREA (MOD)	SQFT	0.060	0.080	SQM	0.006	0.007
REL H	70.0%		VEL	FPS	215.3	1529.6	M/S	65.7	466.2	W (MODEL)	LB/S	0.4	4.8	KG/S	0.2	2.2

FAA DAY 1/3 OCTAVE BAND ENGINE JET NOISE DATA 150.0FT RADIUS (SCALED ENGINE)

BAND CENTER FREQ (KHZ)	MICROPHONE ANGLES IN DEGREES 60	70	80	90	100	110	120	130	140	150	160	POWER 1E-12W
.050	93.7	94.3	96.5	98.2	98.0	99.7	102.9	107.7	112.9	116.5	116.2	152.1
.063	95.4	96.5	96.9	98.4	99.0	100.5	102.8	108.2	113.7	117.2	116.5	152.8
.080	96.5	97.3	97.8	98.6	99.9	102.6	104.8	109.1	114.2	117.4	117.4	153.3
.100	95.6	97.7	98.7	99.3	100.5	102.2	105.0	109.1	113.3	115.5	115.7	152.2
.125	95.8	96.9	98.1	98.6	99.8	102.3	104.9	108.9	111.8	114.2	114.6	151.2
.160	94.8	95.9	97.3	98.5	99.7	102.3	105.3	108.7	110.5	111.6	112.1	149.8
.200	94.3	95.5	96.9	98.5	99.8	102.5	105.5	108.3	109.6	110.1	111.2	149.1
.250	94.1	95.2	96.6	98.0	99.6	102.5	105.5	107.5	108.7	109.2	109.5	148.4
.315	93.7	94.9	96.2	97.8	99.6	102.3	105.2	106.9	107.2	107.2	106.5	147.4
.400	93.4	94.0	95.6	97.1	98.6	101.7	104.1	105.5	105.5	104.9	104.4	146.0
.500	93.3	93.6	95.2	97.0	98.3	101.0	103.6	104.6	104.0	103.0	102.0	145.1
.630	91.8	93.1	94.7	96.4	97.9	100.6	103.0	103.3	102.2	101.0	99.9	144.6
.800	91.2	92.4	94.2	95.9	97.6	100.1	102.2	102.1	100.6	99.6	98.9	143.1
1.00	90.3	91.6	93.3	95.2	96.5	99.2	101.0	100.4	98.8	98.1	97.7	141.8
1.25	89.8	91.1	93.1	94.5	96.2	98.6	100.3	99.8	97.9	97.3	97.1	141.2
1.60	88.1	89.9	91.9	93.4	95.0	97.0	98.9	98.1	96.9	96.0	95.9	139.9
2.00	87.4	89.0	91.3	93.3	94.3	96.9	97.9	97.1	96.2	95.3	95.5	139.1
2.50	86.2	88.3	90.6	92.1	93.7	95.7	97.2	96.3	95.5	94.3	93.9	138.3
3.15	85.5	87.8	89.6	91.7	92.7	95.3	95.9	95.9	94.9	93.9	93.3	137.6
4.00	84.9	86.8	89.2	90.9	91.9	94.3	95.6	95.0	94.1	93.0	92.4	136.8
5.00	83.7	85.7	88.3	89.7	91.1	93.2	94.4	93.9	93.0	92.4	91.7	135.8
6.30	83.8	85.3	87.9	89.2	90.8	92.7	94.2	93.6	92.8	92.7	92.5	135.5
8.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
OASPL	106.1	107.2	108.6	109.9	111.2	113.6	116.1	118.8	121.8	124.2	124.1	OAPWL = 161.3
PNL	113.4	115.0	116.8	118.5	119.7	122.2	123.9	124.6	125.1	125.8	125.8	

200. SIDELINE

PNL	109.4	111.8	114.0	115.8	116.9	118.9	119.9	119.4	118.5	116.9	113.3

370. SIDELINE

PNL	103.3	105.8	108.1	109.8	111.0	112.9	113.9	113.6	112.7	111.1	107.3

800. SIDELINE

PNL	95.1	97.5	99.9	101.6	102.9	104.7	105.8	105.9	104.9	103.3	99.2

2128. SIDELINE

PNL	83.6	85.8	88.1	89.8	91.1	93.2	94.5	94.8	94.0	92.5	87.9

5.1B-40

STAND X206 RIG ID 705308 TEST DATE 02/25/77 SCALE RATIO 12.0/1 RUN NUMBER 20082 CONDITION 8221

					PRIMARY	FAN		PRIMARY	FAN			PRIMARY	FAN		PRIMARY	FAN
TEMP	53°F	11.7°C	AREA	SQFT	0.0	0.0	SQM	0.0	0.0	MASS FLOW	LB/S	0.0	0.0	KG/S	0.0	0.0
PRES	29.41IN	1.00BAR	P.R.		1.02	2.48		1.02	2.48	THRUST,IDL	LB	0.3	382.0	KN	0.024	1.699
WIND	D		TEMP	(R)	1241.7	1253.7	(K)	689.8	696.5	THRUST,MEA	LB	0.0		KN	0.0	
WIND	V 0MPH	0.0M/S	RHO	LB/FT3	0.032	0.040	KG/M3	0.519	0.648	AREA (MOD)	SQFT	0.060	0.080	SQM	0.006	0.007
REL	H 44 50		VEL	FPS	297.7	1866.3	M/S	90.7	568.9	W (MODEL)	LB/S	0.6	6.6	KG/S	0.3	3.0

1/3 OCTAVE BAND MODEL JET NOISE DATA 15.0FT RADIUS THEORETICAL DAY SPL - (MODEL)

BAND CENTER FREQ (KHZ)	MICROPHONE ANGLES IN DEGREES 60	70	80	90	100	110	120	130	140	150	160	POWER 1E-12W
.050	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
.063	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
.080	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
.100	86.6	90.5	91.6	91.7	91.3	91.9	93.2	95.0	96.4	100.8	105.0	117.6
.125	87.1	90.7	90.5	91.4	92.8	93.5	92.3	95.1	99.0	102.3	105.5	118.5
.160	89.9	91.8	91.1	91.4	90.9	91.8	92.9	93.9	98.9	104.0	108.2	119.5
.200	92.3	92.4	93.5	93.9	94.3	95.2	96.6	98.2	103.8	109.0	112.0	123.7
.250	95.6	95.2	96.2	96.2	95.5	95.9	96.9	100.3	106.1	110.9	113.3	125.5
.315	93.1	92.8	94.7	95.8	96.9	97.1	99.3	103.4	108.2	113.5	117.2	126.2
.400	95.1	96.2	97.1	97.6	99.1	101.1	103.4	107.5	112.9	117.4	120.4	131.9
.500	98.7	97.0	97.3	99.4	99.3	101.7	104.0	108.4	115.4	120.4	119.3	133.7
.630	97.3	97.7	100.1	101.7	101.7	103.2	106.5	111.9	117.9	121.3	120.4	135.2
.800	98.7	100.1	100.5	102.2	102.8	103.9	106.8	113.2	119.4	122.5	120.5	136.3
1.00	100.2	101.2	101.7	102.7	104.2	106.7	109.2	114.9	121.1	123.3	122.0	137.6
1.25	100.2	102.2	103.1	104.0	105.3	107.0	109.9	115.5	121.8	123.1	121.7	137.9
1.60	100.9	102.2	103.3	103.9	104.8	107.2	110.2	115.3	121.4	123.8	122.4	138.1
2.00	101.9	101.8	102.9	104.3	105.2	107.3	110.9	115.1	120.9	123.8	121.9	137.8
2.50	101.0	101.2	102.2	103.8	104.9	107.5	111.0	114.9	119.7	122.2	120.4	136.7
3.15	101.3	100.7	101.9	103.3	104.7	107.4	111.3	114.3	118.3	120.6	117.8	135.4
4.00	104.1	102.3	102.2	103.3	104.6	107.6	111.2	114.1	117.6	119.0	115.2	134.5
5.00	104.6	103.8	103.6	103.2	104.3	107.3	110.5	113.1	116.0	117.0	112.8	133.2
6.30	105.5	104.3	104.4	104.6	104.5	107.0	110.2	112.5	115.0	115.4	110.8	132.4
8.00	103.1	104.1	105.1	104.7	105.0	106.9	109.7	111.5	113.7	113.8	109.1	131.5
10.0	101.9	102.4	104.4	105.1	105.0	106.7	109.3	110.2	112.5	112.5	108.3	130.6
12.5	100.8	101.5	103.0	104.3	104.9	106.8	108.7	109.1	111.1	111.1	107.2	129.7
16.0	100.2	101.0	102.9	103.6	104.9	106.7	108.2	108.4	110.0	110.4	106.8	129.1
20.0	98.7	100.0	101.8	102.6	103.9	105.9	107.5	107.2	109.0	109.4	105.9	128.1
25.0	98.6	99.2	101.4	102.8	103.4	105.6	106.9	106.3	108.2	108.8	105.7	127.7
31.5	97.0	98.9	100.8	102.2	103.0	104.9	106.6	105.9	107.9	108.3	105.0	127.1
40.0	96.6	98.4	100.3	102.1	102.5	104.5	105.5	105.9	107.8	108.3	105.2	126.8
50.0	95.9	97.8	100.1	101.4	101.9	104.0	105.3	105.2	107.3	107.9	105.1	126.4
63.0	94.9	96.6	99.3	100.4	101.6	103.2	104.4	104.7	107.0	107.9	104.8	125.9
80.0	94.9	96.4	99.1	100.2	101.4	102.9	104.7	104.9	107.5	108.8	105.6	126.2
100.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
											OAPWL =	147.8
OSPL	114.6	114.9	116.0	116.9	117.7	119.8	122.5	125.7	130.6	133.0	131.6	

STAND X206 RIG ID 705305 TEST DATE 02/25/77 SCALE RATIO 12.0/1 RUN NUMBER 2006 CONDITION 8221

					PRIMARY	FAN			PRIMARY	FAN				PRIMARY	FAN			PRIMARY	FAN
TEMP	77.0(F)	25.0(C)	AREA	SQFT	8.640	11.520	SQM	0.803	1.070	MASS FLOW	LB/S	83.3	949.0	KG/S	37.8	430.4
PRES	29.42IN	1.00BAR	P.R.		1.02	2.48		1.02	2.48	THRUST,IDL	LB	220.1	55001.9	KN	3.426	244.659
WIND D			TEMP	(R)	1241.7	1253.7	(K)	689.8	696.5	THRUST,MEA	LB		0.0	KN	0.0	
WIND V	0MPH	0.0M/S	RHO	LB/FT3	0.032	0.040	KG/M3	0.519	0.648	AREA (MOD)	SQFT	0.060	0.080	SQM	0.006	0.007
REL H	70.0%		VEL	FPS	297.7	1066.3	M/S	90.7	568.9	W (MODEL)	LB/S	0.6	6.6	KG/S	0.3	3.0

FAA DAY 1/3 OCTAVE BAND ENGINE JET NOISE DATA 150.0FT RADIUS (SCALED ENGINE)

BAND CENTER FREQ (KHZ) — MICROPHONE ANGLES IN DEGREES

	60	70	80	90	100	110	120	130	140	150	160	POWER 1E-12W
.050	98.9	99.3	101.7	103.3	103.3	104.8	106.1	113.5	119.5	122.9	122.0	158.4
.063	100.3	101.7	102.1	103.8	104.4	105.5	108.4	114.8	121.0	124.1	122.1	159.5
.080	101.8	102.8	103.3	104.3	105.8	108.3	110.8	116.5	122.7	124.9	123.6	160.8
.100	101.8	103.6	104.7	105.6	106.9	108.6	111.5	117.1	123.4	124.7	123.3	161.0
.125	102.5	103.8	104.9	105.5	106.4	108.6	111.8	116.9	123.0	125.4	124.0	161.2
.160	103.4	103.3	104.4	105.8	106.7	108.8	112.4	116.6	122.4	125.3	123.4	161.0
.200	102.5	102.7	103.7	105.3	106.4	109.0	112.5	116.4	121.2	123.7	121.9	159.8
.250	102.8	102.2	103.4	104.8	106.2	108.9	112.8	115.8	119.8	122.1	119.3	158.5
.315	103.6	103.8	103.7	104.8	106.1	109.1	112.7	115.6	119.1	120.5	116.7	157.6
.400	105.1	105.3	105.1	104.7	105.8	108.8	112.0	114.6	117.5	118.5	114.3	156.3
.500	106.9	105.7	105.8	106.0	105.9	106.4	111.6	113.9	116.4	116.8	112.2	155.4
.630	104.5	105.5	106.5	106.1	106.4	108.3	111.1	112.9	115.1	115.2	110.5	154.5
.800	103.3	103.8	105.8	106.5	106.4	108.1	110.7	111.6	113.9	113.9	109.7	153.6
1.00	102.1	102.8	104.3	105.6	106.2	108.1	110.0	110.4	112.4	112.4	108.5	152.6
1.25	101.4	102.2	104.1	104.8	106.1	107.9	109.4	109.6	111.2	111.6	108.0	151.9
1.60	99.8	101.1	102.9	103.7	105.0	107.0	108.6	108.3	110.1	110.5	107.0	150.9
2.00	99.1	100.3	102.5	103.9	104.5	106.9	108.0	107.4	109.3	109.9	106.8	150.3
2.50	97.9	99.8	101.7	103.1	103.9	105.8	107.5	106.8	108.8	109.2	105.9	149.6
3.15	97.3	99.1	101.0	102.8	103.2	105.2	106.2	106.6	108.5	109.0	105.9	149.1
4.00	96.4	98.3	100.6	101.9	102.4	104.5	105.6	105.7	107.8	108.4	105.6	148.4
5.00	95.2	96.9	99.6	100.7	101.9	103.5	104.7	105.0	107.3	108.2	105.1	147.7
6.30	94.9	96.4	99.1	100.2	101.4	102.9	104.7	104.9	107.5	108.8	105.6	147.7
8.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

OAPWL = 170.4

OSPL	115.7	116.0	117.1	117.9	118.8	120.9	123.7	127.0	131.9	134.0	132.1
PNL	124.4	125.4	127.0	128.3	129.0	131.0	133.0	134.3	137.2	138.6	136.0

200. SIDELINE

PNL	120.3	122.1	124.2	125.6	126.1	127.7	129.0	129.1	130.4	129.6	123.4

370. SIDELINE

PNL	114.3	116.1	118.2	119.6	120.1	121.7	123.0	123.0	124.5	123.6	117.3

860. SIDELINE

PNL	106.5	107.9	110.0	111.3	111.9	113.4	114.6	114.9	116.7	115.6	109.0

2128. SIDELINE

PNL	95.1	96.2	97.8	98.8	99.3	101.0	102.7	103.7	105.6	104.4	97.4

STAND X206 RIG ID 705308 TEST DATE 02/25/77 SCALE RATIO 12.0/1 RUN NUMBER 20082 CONDITION 8222

					PRIMARY	FAN		PRIMARY	FAN			PRIMARY	FAN		PRIMARY	FAN
TEMP	53°F	11.7°C	AREA	SQFT	0.0	0.0	SQM	0.0	0.0	MASS FLOW	LB/S	0.0	0.0	KG/S	0.0	0.0
PRES	29.41IN	1.008AR	P.R.		1.00	3.16		1.00	3.18	THRUST,IDL	LB	0.0	545.0	KN	0.0	2.424
WIND D			TEMP	(R)	1247.7	1270.7	(K)	693.2	705.9	THRUST,MEA	LB		0.0	KN	0.0	
WIND V	OMPH	0.0M/S	RHO	LB/FT3	0.052	0.053	KG/M3	0.514	0.682	AREA (MOD)	SQFT	0.060	0.080	SQM	0.006	0.007
REL H	42 %		VEL	FPS	0.0	2086.8	M/S	0.0	636.1	W (MODEL)	LB/S	0.0	8.4	KG/S	0.0	3.8

1/3 OCTAVE BAND MODEL JET NOISE DATA 15.0FT RADIUS THEORETICAL DAY SPL - (MODEL)

BAND CENTER FREQ (KHZ)	MICROPHONE ANGLES IN DEGREES 60	70	80	90	100	110	120	130	140	150	160	POWER 1E-12W
.050	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
.063	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
.080	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
.100	90.9	94.8	96.4	95.5	99.1	96.7	96.9	98.5	99.8	104.3	109.1	121.8
.125	91.4	95.2	94.9	95.9	98.7	97.3	96.1	98.5	101.9	105.6	109.4	122.3
.160	94.3	96.2	95.2	95.6	96.4	95.7	96.4	97.4	102.1	107.7	112.2	123.4
.200	96.1	96.2	97.4	97.8	98.6	99.4	100.2	101.5	106.9	112.4	115.4	127.2
.250	99.2	98.8	99.7	99.6	99.3	99.6	100.3	103.3	109.1	114.1	117.2	128.9
.315	96.3	96.1	98.2	98.9	100.3	100.9	102.5	106.3	111.4	117.1	121.2	131.8
.400	98.2	99.3	100.5	100.9	102.7	103.8	106.8	110.2	116.1	120.7	124.2	135.5
.500	102.0	100.6	100.6	101.9	102.3	102.1	106.7	111.1	118.7	123.7	123.1	137.2
.630	100.8	100.9	103.1	104.5	104.3	106.2	109.0	115.0	121.4	124.8	123.9	138.6
.800	101.6	102.8	103.4	104.7	105.8	106.9	109.6	116.4	123.2	126.0	123.9	139.8
1.00	102.7	103.5	104.3	105.3	106.9	109.6	112.0	118.5	124.9	126.5	124.7	141.0
1.25	103.1	104.1	105.2	106.3	107.9	109.8	112.8	119.4	125.9	126.4	123.9	141.4
1.60	105.6	106.1	106.7	107.6	109.2	112.2	114.0	119.6	127.2	129.3	126.7	143.4
2.00	108.6	106.2	105.9	106.4	107.8	110.3	113.8	119.5	126.7	126.7	122.1	141.7
2.50	113.5	111.7	109.2	107.4	108.6	110.5	114.3	119.2	126.2	124.6	119.7	140.9
3.15	113.5	114.6	115.7	112.3	108.8	110.8	114.5	118.6	125.2	122.7	117.5	140.4
4.00	111.9	113.1	114.7	115.2	111.8	111.6	114.8	118.3	124.1	120.9	115.1	139.7
5.00	111.0	111.3	112.4	113.6	113.9	112.6	114.5	117.7	122.3	118.9	112.9	138.5
6.30	110.3	110.7	111.8	112.1	113.1	114.2	115.0	117.5	121.1	117.4	110.8	137.8
8.00	108.8	109.9	110.9	111.7	111.7	114.1	115.4	116.9	119.6	116.1	109.3	137.0
10.0	108.4	109.3	110.5	111.1	112.0	113.7	115.3	116.1	118.7	114.8	108.7	136.4
12.5	107.6	108.7	110.0	110.7	111.3	113.1	115.1	115.1	117.5	113.8	108.1	135.6
16.0	107.2	108.6	110.3	110.7	110.9	112.7	114.3	114.7	117.0	113.2	107.8	135.2
20.0	106.6	107.6	109.2	109.8	110.5	111.8	113.4	113.7	116.0	112.3	107.0	134.3
25.0	105.7	107.1	109.1	110.1	110.3	111.9	112.5	112.8	115.3	111.8	106.9	133.9
31.5	105.0	107.0	108.9	109.8	110.4	111.4	112.4	112.5	115.0	111.3	106.2	133.6
40.0	104.6	106.8	108.3	109.8	110.6	111.5	111.7	112.4	114.8	111.3	106.5	133.3
50.0	104.3	106.2	108.6	109.6	109.8	111.1	111.9	112.1	114.6	111.1	106.2	133.2
63.0	103.3	105.5	108.0	108.9	109.8	110.9	111.5	111.9	114.4	110.9	105.8	132.9
80.0	103.4	105.4	108.0	108.9	110.2	111.0	112.0	112.4	115.1	111.9	106.7	133.3
100.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
OSPL	121.8	122.4	123.6	123.8	123.9	125.5	127.1	130.3	136.0	136.4	134.3	OAPWL = 152.3

20082F TAPE P7022 NASA VSCE (NAS3-20061) CONFIG. B

15.2049

STAND X206 RIG ID 705308 TEST DATE 02/25/77 SCALE RATIO 12.6/1 RUN NUMBER 2008 CONDITION 8222

					PRIMARY	FAN		PRIMARY	FAN			PRIMARY	FAN		PRIMARY	FAN
TEMP	77.0(F)	25.0(C)	AREA	SQFT	8.640	11.520	SQM	0.803	1.070	MASS FLOW	LB/S	0.0	1211.0	KG/S	0.0	549.3
PRES	29.411N	1.008AR	P.R.		1.00	3.18		1.00	3.18	THRUST,IDL	LB	0.0	78484.2	KN	0.0	349.114
WIND D			TEMP	(R)	1247.7	1270.7	(K)	693.2	705.9	THRUST,MEA	LB		0.0	KN	0.0	
WIND V	0MPH	0.0M/S	RHO	LB/FT3	0.032	0.043	KG/M3	0.514	0.682	AREA (MOD)	SQFT	0.060	0.080	SQM	0.006	0.007
REL H	70.0%		VEL	FPS	0.0	2086.8	M/S	0.0	636.1	W (MODEL)	LB/S	0.0	8.4	KG/S	0.0	3.8

FAA DAY

1/3 OCTAVE BAND ENGINE JET NOISE DATA 150.0FT RADIUS (SCALED ENGINE)

BAND CENTER FREQ (KHZ)	MICROPHONE ANGLES IN DEGREES 60	70	80	90	100	110	120	130	140	150	160	POWER 1E-12W
.050	102.4	102.5	104.7	106.1	105.9	107.8	110.6	116.6	123.0	126.4	125.5	
.063	103.2	104.4	105.0	106.3	107.4	108.5	111.2	118.0	124.8	127.6	125.5	161.8
.080	104.3	105.1	105.9	106.9	108.5	111.2	113.6	120.1	126.5	128.1	126.3	163.0
.100	104.7	105.7	106.8	107.9	109.5	111.4	114.4	121.0	127.5	128.0	125.5	164.1
.125	107.2	107.7	108.3	109.2	110.8	113.8	115.6	121.2	128.8	130.9	128.3	164.5
.160	110.5	107.7	107.4	107.9	109.3	111.8	115.3	121.0	128.2	128.2	123.6	166.5
.200	114.8	113.2	110.7	108.9	109.5	112.0	115.8	120.7	127.7	126.1	121.2	164.9
.250	115.0	116.1	117.2	113.8	110.3	112.3	116.0	120.1	126.7	124.2	119.0	164.1
.315	113.4	114.6	116.2	116.7	113.3	113.1	116.3	119.8	125.6	122.4	116.6	163.5
.400	112.5	112.8	113.9	115.1	115.4	114.1	116.0	119.2	123.8	120.4	114.4	162.8
.500	111.7	112.1	113.2	113.5	114.5	115.6	116.4	118.9	122.5	118.8	112.2	161.6
.630	110.2	111.5	112.3	113.1	113.1	115.5	116.8	118.3	121.0	117.5	110.7	160.6
.800	109.8	110.7	111.9	112.5	113.4	115.1	116.8	117.5	120.1	116.2	110.1	160.0
1.00	108.9	110.0	111.3	112.0	112.6	114.4	116.4	116.4	118.8	115.1	109.4	159.3
1.25	108.4	109.8	111.5	111.9	112.1	113.9	115.5	115.9	118.2	114.4	109.0	158.5
1.60	107.1	108.7	110.3	110.9	111.6	112.9	114.5	114.8	117.1	113.4	108.1	158.0
2.00	106.6	108.2	110.2	111.2	111.4	113.0	113.6	113.9	116.4	112.9	108.0	157.0
2.50	105.9	107.9	109.8	110.7	111.3	112.3	113.3	113.4	115.9	112.2	107.1	156.5
3.15	105.3	107.5	109.0	110.5	110.7	112.2	112.4	113.1	115.5	112.0	107.2	156.0
4.00	104.8	106.7	109.1	110.1	110.3	111.6	112.4	112.6	115.1	111.6	106.7	155.6
5.00	103.6	105.8	108.3	109.2	110.1	111.2	111.8	112.2	114.7	111.2	106.1	155.2
6.30	103.4	105.4	108.0	108.9	110.2	111.0	112.0	112.4	115.1	111.9	106.7	154.8
8.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	154.8
10.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
												0.0
OSPL	123.0	123.7	124.8	124.9	124.9	126.3	128.2	131.5	137.3	137.4	134.4	OAPWL = 175.0
PNL	131.9	133.3	134.8	135.6	135.9	137.3	138.4	140.1	143.7	141.8	137.8	

200. SIDELINE

PNL 127.8 130.0 131.9 132.9 133.0 134.0 134.3 134.8 136.8 132.8 125.2

370. SIDELINE

PNL 121.8 124.0 125.9 126.9 127.0 127.9 128.3 128.7 130.8 126.9 119.2

800. SIDELINE

PNL 113.6 115.6 117.7 118.5 118.6 119.4 119.9 120.2 122.9 119.0 111.0

2128. SIDELINE

PNL 102.3 104.3 106.0 106.6 106.3 106.7 107.3 108.6 111.7 107.9 99.8

STAND X206 RIG ID 705308 TEST DATE 02/25/77 SCALE RATIO 12.0/1 RUN NUMBER 20082 CONDITION 8223

				PRIMARY	FAN		PRIMARY	FAN			PRIMARY	FAN		PRIMARY	FAN
TEMP	54°F	12.2°C	AREA	SQFT	0.0	0.0	SQM	0.0	0.0	MASS FLOW LB/S	0.0	0.0	KG/S	0.0	0.0
PRES	29.41IN	1.00BAR	P.R.		0.00	1.80		1.01	1.80	THRUST,IDL LB	0.5	232.4	KN	0.011	1.034
WIND	D		TEMP	(R)	1833.7	1963.7	(K)	1018.7	1090.9	THRUST,MEA LB		0.0	KN	0.0	
WIND	V OMPH	0.0M/S	RHO	LB/FT3	0.022	0.023	KG/M3	0.350	0.376	AREA (MOD) SQFT	0.060	0.080	SQM	0.006	0.007
REL	H 41 %		VEL	FPS	248.3	1918.9	M/S	75.7	584.9	W (MODEL) LB/S	0.3	3.9	KG/S	0.1	1.8

1/3 OCTAVE BAND MODEL JET NOISE DATA · 15.0FT RADIUS THEORETICAL DAY SPL - (MODEL)

BAND CENTER FREQ (KHZ)	MICROPHONE ANGLES IN DEGREES 60	70	80	90	100	110	120	130	140	150	160	POWER 1E-12W
.050	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
.063	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
.080	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
.100	82.0	85.5	87.9	88.3	87.9	88.8	91.0	93.2	94.5	97.9	101.6	114.7
.125	83.0	87.1	87.4	88.4	90.2	91.0	89.8	94.1	97.6	100.0	102.1	116.1
.160	86.1	88.8	88.2	88.0	87.7	89.5	90.7	92.3	97.4	101.6	104.9	117.0
.200	87.1	87.6	88.6	89.7	90.9	92.2	94.2	96.3	102.0	106.4	108.2	120.9
.250	91.3	91.8	92.3	93.2	92.3	93.5	95.5	99.5	104.4	108.6	110.1	123.1
.315	90.3	90.3	92.4	93.4	94.9	95.7	98.3	102.7	107.0	111.0	113.5	125.7
.400	92.2	92.6	93.8	94.6	96.3	104.1	101.8	106.4	111.3	114.7	116.6	129.5
.500	96.1	94.9	95.0	96.9	97.1	109.9	103.1	108.0	114.1	117.6	115.2	131.8
.630	95.1	95.3	97.8	99.1	99.4	101.4	105.6	111.4	116.2	118.3	116.0	132.8
.800	97.0	97.8	98.5	99.8	100.5	102.3	106.2	112.7	117.7	119.1	116.8	133.9
1.00	98.6	99.4	99.8	101.0	102.5	104.9	108.3	114.4	119.0	119.8	118.2	135.1
1.25	98.9	100.4	101.2	102.1	103.6	105.3	108.8	114.5	119.5	119.9	118.1	135.4
1.60	99.0	100.0	101.0	101.7	103.0	105.5	109.0	114.1	118.4	119.8	118.2	134.9
2.00	98.8	99.3	100.6	101.9	103.2	105.5	109.5	113.4	117.0	118.8	116.8	133.9
2.50	97.9	98.7	100.3	101.8	103.2	105.9	109.7	112.7	116.1	117.7	115.7	133.1
3.15	97.2	98.2	99.8	101.4	103.1	106.0	109.6	111.9	114.7	115.9	113.6	131.9
4.00	96.6	97.9	99.4	101.1	103.1	106.1	109.4	111.4	113.6	114.1	110.8	131.0
5.00	96.6	97.0	98.7	100.4	102.5	105.5	108.3	109.9	111.7	111.6	108.5	129.4
6.30	95.6	96.5	98.3	100.5	102.3	105.6	107.9	109.2	110.6	110.0	106.4	128.4
8.00	94.1	96.0	97.9	99.7	101.8	104.6	107.1	107.8	108.9	108.5	104.8	127.3
10.0	93.3	95.3	97.4	99.4	101.3	103.9	106.4	106.5	107.4	107.2	103.9	126.3
12.5	92.7	94.5	96.7	98.8	100.7	103.3	105.4	104.8	105.5	105.7	103.1	125.1
16.0	92.3	94.1	96.6	98.4	100.5	102.7	104.4	104.0	104.4	104.9	102.3	124.3
20.0	90.9	92.9	95.5	97.5	99.3	101.5	103.3	102.5	103.1	103.8	101.3	123.1
25.0	90.3	92.4	95.1	97.4	98.9	101.3	102.4	101.5	102.5	103.2	101.0	122.6
31.5	89.7	92.3	94.8	96.8	98.6	100.4	102.0	101.1	102.2	102.8	100.1	122.0
40.0	89.5	92.1	94.3	96.6	97.9	100.2	100.9	100.9	101.7	102.6	99.9	121.6
50.0	89.2	91.5	94.0	96.0	97.2	99.5	100.8	100.3	101.1	101.9	99.6	121.1
63.0	88.4	90.6	93.4	95.1	96.9	98.6	99.9	99.5	100.6	101.4	98.9	120.4
80.0	88.5	90.4	93.3	94.8	96.7	98.3	100.1	99.5	100.5	101.9	99.7	120.4
100.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
OSPL	109.4	110.4	111.9	113.4	114.9	118.2	120.4	123.8	127.7	129.1	127.5	OAPWL = 144.6

STAND X206 RIG ID 705308 TEST DATE 02/25/77 SCALE RATIO 12.0/1 RUN NUMBER 2008 CONDITION 8223

					PRIMARY	FAN			PRIMARY	FAN				PRIMARY	FAN			PRIMARY	FAN
TEMP	77.0(F)	25.0(C)	AREA	SQFT	8.640	11.520	SQM	0.803	1.070	MASS FLOW	LB/S	46.9	561.6	KG/S	21.3	254.7
PRES	29.41IN	1.00BAR	P.R.		1.01	1.80		1.01	1.80	THRUST,IDL	LB	3613.3	33467.6	KN	1.609	148.871
WIND D			TEMP	(R)	1833.7	1963.7	(K)	1018.7	1090.9	THRUST,MEA	LB		0.0	KN	0.0	
WIND V	0MPH	0.0M/S	RHO	LB/FT3	0.022	0.023	KG/M3	0.350	0.376	AREA (MOD)	SQFT	0.060	0.080	SQM	0.006	0.007
REL H	70.0%		VEL	FPS	298.3	1918.9	M/S	75.7	584.9	W (MODEL)	LB/S	0.3	3.9	KG/S	0.1	1.8

FAA DAY

1/3 OCTAVE BAND ENGINE JET NOISE DATA 150.0FT RADIUS (SCALED ENGINE)

BAND CENTER FREQ (KHZ)	MICROPHONE ANGLES IN DEGREES 60	70	80	90	100	110	120	130	140	150	160	POWER 1E-12W
.050	96.7	96.9	99.4	100.7	101.0	103.0	107.2	113.0	117.8	119.9	117.6	155.9
.063	98.6	99.4	100.1	101.4	102.1	103.9	107.8	114.3	119.3	120.7	118.4	157.0
.080	100.2	101.0	101.4	102.6	104.1	106.5	109.9	116.0	120.6	121.4	119.8	158.2
.100	100.5	102.0	102.8	103.7	105.2	108.9	110.4	116.1	121.1	121.5	119.7	158.5
.125	100.6	101.6	102.6	103.3	104.6	107.1	110.6	115.7	120.0	121.4	119.8	158.1
.160	100.3	100.8	102.1	103.4	104.7	107.0	111.0	114.9	118.5	120.3	118.3	157.0
.200	99.4	100.2	101.8	103.3	104.7	107.4	111.2	114.2	117.6	119.2	117.2	156.2
.250	98.7	99.7	101.3	102.9	104.6	107.5	111.1	113.4	116.2	117.4	115.1	155.0
.315	98.1	99.4	100.9	102.6	104.8	107.6	110.9	112.9	115.1	115.6	112.3	154.1
.400	97.5	98.5	100.2	101.9	104.0	107.0	109.8	111.4	113.2	113.1	110.0	152.4
.500	97.0	97.9	99.7	101.9	103.7	106.4	109.3	110.6	112.0	111.4	107.8	151.5
.630	95.5	97.4	99.3	101.1	103.2	106.0	108.5	109.2	110.3	109.9	106.2	150.3
.800	94.7	96.7	98.8	100.8	102.7	105.3	107.8	107.9	108.8	108.6	105.3	149.2
1.00	94.0	95.8	98.0	100.1	102.0	104.6	106.7	106.1	106.8	107.0	104.4	146.6
1.25	93.5	95.3	97.8	99.6	101.7	103.9	105.6	105.2	105.6	106.1	103.5	147.1
1.60	92.0	94.0	96.6	98.6	100.4	102.6	104.4	103.6	104.2	104.9	102.4	145.8
2.00	91.4	93.5	96.2	98.5	100.0	102.4	103.5	102.6	103.6	104.3	102.1	145.2
2.50	90.6	93.2	95.7	97.7	99.5	101.3	102.9	102.0	103.1	103.7	101.0	144.5
3.15	90.2	92.8	95.0	97.3	98.6	100.9	101.6	101.6	102.4	103.3	100.6	143.8
4.00	89.7	92.0	94.5	96.5	97.7	100.0	101.3	100.8	101.6	102.4	100.1	143.1
5.00	88.7	90.9	93.7	95.4	97.2	99.1	100.2	99.8	100.9	101.7	99.2	142.3
6.30	88.5	90.4	93.3	94.8	96.7	98.3	100.1	99.5	100.5	101.9	99.7	141.9
8.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

OAPWL = 167.2

OSPL	110.3	111.5	113.0	114.5	116.1	118.6	121.6	125.1	128.8	130.0	127.9
PNL	117.8	119.7	121.7	123.7	125.2	127.5	129.5	130.5	132.7	133.7	131.3

200. SIDELINE

PNL	113.8	116.4	118.9	121.0	122.4	124.3	125.5	125.4	126.1	124.7	118.8

370. SIDELINE

PNL	107.7	110.4	112.9	115.0	116.4	118.3	119.5	119.6	120.3	118.8	112.7

800. SIDELINE

PNL	99.4	102.1	104.8	106.8	108.3	110.0	111.4	111.9	112.6	110.9	104.5

2128. SIDELINE

PNL	88.0	90.4	92.8	94.8	96.4	98.4	100.2	100.9	101.8	99.8	93.0

STAND X206 RIG ID 705308 TEST DATE 02/25/77 SCALE RATIO 12.0/1 RUN NUMBER 20082 CONDITION 8224

					PRIMARY	FAN		PRIMARY	FAN			PRIMARY	FAN		PRIMARY	FAN
TEMP	56°F	13.3°C	AREA	SQFT	0.0	0.0	SQM	0.0	0.0	MASS FLOW	LB/S	0.0	0.0	KG/S	0.0	0.0
PRES	29.41IN	1.00BAR	P.R.		1.02	2.48		1.02	2.48	THRUST,IDL	LB	2.2	393.3	KN	0.023	1.750
WIND D			TEMP	(R)	1919.7	1958.7	(K)	1066.5	1088.2	THRUST,MEA	LB		0.0	KN	0.0	
WIND V	0MPH	0.0M/S	RHO	LB/FT3	0.021	0.025	KG/M3	0.335	0.407	AREA (MOD)	SQFT	0.060	0.080	SQM	0.006	0.007
RIL H	39 %		VEL	FPS	1[illegible].2	2341.1	M/S	111.0	713.6	W (MODEL)	LB/S	0.5	5.4	KG/S	0.2	2.5

1/3 OCTAVE BAND MODEL JET NOISE DATA 15.0FT RADIUS THEORETICAL DAY SPL - (MODEL)

BAND CENTER FREQ (KHZ)	MICROPHONE ANGLES IN DEGREES 60	70	80	90	100	110	120	130	140	150	160	POWER 1E-12W
.050	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
.063	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
.080	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
.100	87.7	91.2	93.2	93.1	93.2	93.9	95.3	97.1	98.5	103.0	106.9	0.0
.125	88.6	91.8	92.5	94.2	95.6	95.5	94.2	97.9	101.5	104.7	107.7	119.5
.160	91.5	94.1	92.9	93.2	92.9	94.3	95.2	96.4	101.9	106.6	110.4	120.8
.200	92.2	92.6	93.8	94.7	95.8	96.8	98.6	100.7	106.6	111.4	113.6	122.0
.250	96.9	96.9	97.6	97.9	97.3	96.1	99.6	103.5	109.3	113.5	115.6	125.8
.315	94.6	95.0	96.4	97.9	99.1	100.1	102.4	107.1	111.5	116.2	119.1	128.1
.400	97.3	97.4	98.3	99.2	100.3	101.7	105.4	110.6	116.0	119.7	122.2	130.8
.500	100.1	99.1	99.2	100.8	101.1	114.0	106.6	112.1	118.7	122.1	120.8	134.5
.630	99.5	99.6	101.6	102.8	103.3	105.5	109.3	115.9	121.1	123.3	120.8	136.4
.800	100.4	101.2	102.1	103.7	104.5	106.1	110.5	117.6	122.6	124.0	121.2	137.6
1.00	101.7	102.3	103.3	104.5	106.3	108.7	112.9	120.2	124.3	124.1	121.8	138.7
1.25	102.1	103.3	104.4	105.4	107.0	109.4	113.7	121.4	125.3	124.2	121.3	139.9
1.60	101.9	103.3	104.6	105.6	107.2	110.1	114.2	122.0	125.7	125.2	121.3	140.6
2.00	102.7	103.2	104.8	106.0	107.7	110.5	115.1	122.4	126.4	124.6	119.9	141.2
2.50	102.6	103.3	105.0	106.6	108.2	111.4	116.4	122.3	126.4	123.5	118.3	141.4
3.15	102.2	103.1	104.9	106.7	108.5	111.7	116.4	121.0	124.6	120.9	115.6	141.2
4.00	101.8	103.2	105.1	106.8	108.9	112.0	116.2	120.4	123.3	118.9	113.2	139.6
5.00	101.8	102.6	104.5	106.3	108.5	111.9	115.6	119.3	121.5	116.8	111.6	138.7
6.30	102.0	102.8	104.5	106.5	108.5	111.7	115.4	118.5	120.4	115.5	109.7	137.3
8.00	100.5	102.6	104.5	106.2	108.3	111.5	114.7	117.5	118.9	114.0	108.1	136.2
10.0	99.3	101.8	104.3	106.2	108.2	111.6	114.0	116.4	117.7	112.8	107.3	135.5
12.5	98.8	100.9	103.4	105.7	107.5	110.4	113.1	115.1	116.4	111.5	106.2	134.6
16.0	98.1	100.4	103.2	105.0	107.3	109.9	112.1	114.3	115.4	110.6	105.6	133.9
20.0	96.9	99.5	102.6	104.1	106.2	108.7	111.0	112.8	114.4	109.6	104.6	132.7
25.0	96.2	98.7	101.6	104.0	105.9	108.5	110.6	111.9	113.6	109.0	104.5	131.5
31.5	95.3	98.2	101.1	103.3	105.1	107.2	108.8	111.4	113.2	108.4	103.7	130.8
40.0	95.1	98.0	100.4	103.0	104.4	107.2	108.5	111.4	113.3	108.3	103.9	130.3
50.0	94.7	97.1	100.0	102.1	103.6	106.3	108.5	111.1	112.9	107.8	103.8	130.0
63.0	95.8	98.2	99.2	101.2	103.2	105.7	108.0	110.9	112.8	107.9	103.6	129.6
80.0	93.9	96.0	98.9	100.9	103.0	105.4	108.4	111.3	113.4	108.9	104.4	129.4
100.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	129.7
												0.0
OSPL	114.0	115.2	117.0	118.7	120.4	123.8	126.9	131.9	135.4	134.1	131.5	OAPWL = 151.1

STAND X206 RIG ID 705308 TEST DATE 02/25/77 SCALE RATIO 12.0/1 RUN NUMBER 2008 CONDITION 8224

				PRIMARY	FAN		PRIMARY	FAN			PRIMARY	FAN		PRIMARY	FAN
TEMP	77.0(F)	25.0(C)	AREA	SQFT	8.640	11.520	SQM	0.803	1.070	MASS FLOW LB/S	65.9	779.0	KG/S	29.9	353.4
PRES	29.41IN	1.00BAR	P.R.		1.02	2.48		1.02	2.48	THRUST,IDL LB	145.3	26640.2	KN	1.315	251.947
WIND D			TEMP	(R)	1919.7	1918.7	(K)	1066.5	1088.2	THRUST,MEA LB		0.0	KN	0.0	
WIND V	0MPH	0.0M/S	KHO	LB/FT3	0.021	0.025	KG/M3	0.335	0.407	AREA (MOD) SQFT	0.060	0.080	SQM	0.006	0.007
REL H	70.0%		VEL	FPS	3[illegible].2	2341.1	M/S	111.0	713.6	W (MODEL) LB/S	0.5	5.4	KG/S	0.2	2.5

FAA DAY

1/3 OCTAVE BAND ENGINE JET NOISE DATA 150.0FT RADIUS (SCALED ENGINE)

BAND CENTER FREQ (KHZ)	MICROPHONE ANGLES IN DEGREES 60	70	80	90	100	110	120	130	140	150	160	POWER 1E-12W
.050	101.1	101.2	103.2	104.4	104.9	107.1	110.9	117.5	122.7	124.9	122.4	
.063	102.0	102.8	103.7	105.3	106.1	107.7	112.1	119.2	124.2	125.6	122.8	160.7
.080	103.3	103.9	104.9	106.1	107.9	110.3	114.5	121.8	125.9	125.7	123.4	161.8
.100	103.7	104.9	106.0	107.0	108.6	111.0	115.3	123.0	126.9	125.8	122.9	163.1
.125	103.5	104.9	106.2	107.2	108.8	111.7	115.8	123.6	127.3	126.8	122.9	163.8
.160	104.2	104.7	106.3	107.5	109.2	112.0	116.6	123.9	127.9	126.1	121.4	164.4
.200	104.1	104.6	106.5	108.1	109.7	112.9	117.9	123.8	127.9	125.6	119.8	164.5
.250	103.7	104.6	106.4	108.2	110.0	113.2	117.9	122.5	126.1	122.4	117.1	164.3
.315	103.3	104.7	106.6	108.3	110.4	113.5	117.7	121.9	124.8	120.4	114.7	162.7
.400	103.3	104.1	106.0	107.8	110.6	113.4	117.1	120.8	123.0	118.3	113.1	161.7
.500	103.4	104.2	105.9	107.9	109.9	113.1	116.8	119.9	121.8	116.9	111.1	160.4
.630	101.9	104.0	105.9	107.6	109.7	112.9	116.1	118.9	120.3	115.4	109.5	159.5
.800	100.7	103.2	105.7	107.6	109.6	112.4	115.4	117.8	119.1	114.2	108.7	158.5
1.00	100.1	102.2	104.7	107.0	108.8	111.7	114.4	116.4	117.7	112.8	107.5	157.5
1.25	99.3	101.6	104.4	106.2	108.5	111.1	113.3	115.5	116.6	111.8	106.8	156.4
1.60	98.0	100.6	103.1	105.2	107.3	109.8	112.1	113.9	115.5	110.7	105.7	155.5
2.00	97.3	99.8	102.7	105.1	106.6	109.6	111.1	113.0	114.7	110.1	105.6	154.2
2.50	96.2	99.1	102.0	104.2	106.0	108.1	110.7	112.3	114.1	109.3	104.6	153.5
3.15	95.8	98.7	101.1	103.7	105.1	107.9	109.2	112.1	114.0	109.0	104.6	152.7
4.00	95.2	97.6	100.5	102.6	104.1	106.8	109.0	111.6	113.4	108.3	104.3	152.3
5.00	94.1	96.5	99.5	101.5	103.5	106.0	108.3	111.2	113.1	108.2	103.9	151.6
6.30	93.9	96.0	98.9	100.9	103.0	105.4	108.4	111.3	113.4	108.9	104.4	151.2
8.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	151.2
10.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
												0.0

OSPL	114.9	116.2	118.1	119.8	121.6	124.4	128.1	133.2	136.7	135.0	131.4	OAPWL = 173.8
PNL	123.1	125.2	127.5	129.6	131.3	134.1	136.8	140.2	142.6	139.2	134.6	

200. SIDELINE

PNL	119.1	122.0	124.7	126.9	128.5	130.8	132.8	135.0	135.9	130.3	122.0	

370. SIDELINE

PNL	116.0	118.0	120.8	122.9	124.5	126.8	128.8	130.9	130.1	124.4	115.9	

800. SIDELINE

PNL	104.8	107.7	110.6	112.7	114.4	116.5	118.5	121.1	122.3	116.4	107.6	

2128. SIDELINE

PNL	93.5	95.9	98.5	100.6	102.3	104.7	107.2	110.1	111.2	105.3	96.2	

STAND X206 RIG ID 705308 TEST DATE 02/25/77 SCALE RATIO 12.0/1 RUN NUMBER 20082 CONDITION 0225

					PRIMARY	FAN		PRIMARY	FAN			PRIMARY	FAN		PRIMARY	FAN
TEMP	57°F	13.9°C	AREA	SQFT	0.0	0.0	SQM	0.0	0.0	MASS FLOW	LB/S	0.0	0.0	KG/S	0.0	0.0
PRES	29.41IN	1.00BAR	P.R.		1.01	4.06		1.01	4.06	THRUST,IDL	LB	0.3	442.3	KN	0.015	1.967
WIND D			TEMP	(R)	1922.7	1950.7	(K)	1068.2	1083.7	THRUST,MEA	LB		0.0	KN	0.0	
WIND V	0MPH	0.0M/S	RHO	LB/FT3	0.021	0.029	KG/M3	0.334	0.460	AREA (MOD)	SQFT	0.060	0.080	SQM	0.006	0.007
REL H	35 %		VEL	FPS	2[illegible].7	2820.2	M/S	88.6	859.6	W (MODEL)	LB/S	0.4	5.1	KG/S	0.2	2.3

1/3 OCTAVE BAND MODEL JET NOISE DATA 15.0FT RADIUS THEORETICAL DAY SPL - (MODEL)

BAND CENTER FREQ (KHZ)	MICROPHONE ANGLES IN DEGREES 60	70	80	90	100	110	120	130	140	150	160	POWER 1E-12W
.050	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
.063	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
.080	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
.100	95.4	99.0	100.6	99.8	103.9	100.8	101.9	103.0	104.6	109.1	114.2	126.5
.125	95.9	99.5	100.1	101.2	103.5	101.6	101.3	104.2	107.7	111.2	115.1	127.7
.160	99.9	101.5	100.1	100.6	101.8	101.1	101.9	102.6	107.9	113.1	117.9	128.9
.200	98.9	99.7	101.6	102.3	103.3	104.0	105.6	107.1	113.0	118.1	121.0	132.7
.250	104.6	104.6	104.9	104.6	104.6	105.1	105.9	109.7	114.8	119.9	123.1	134.7
.315	100.3	101.4	103.8	105.0	106.7	106.5	108.4	113.1	116.9	122.5	126.0	137.1
.400	104.0	104.0	104.6	105.3	107.2	116.6	111.6	115.9	121.8	125.8	128.9	140.7
.500	105.2	104.4	104.9	106.1	106.8	119.6	111.8	117.7	124.9	128.5	127.4	142.6
.630	104.7	105.4	107.0	107.5	108.2	110.6	114.5	121.6	127.1	129.1	127.0	143.4
.800	105.8	106.1	107.4	108.7	109.8	111.5	115.6	123.3	128.6	130.0	127.1	144.6
1.00	106.6	106.7	107.8	108.9	110.9	113.5	118.1	126.3	130.4	129.6	126.0	145.7
1.25	106.8	107.3	108.5	109.1	111.0	113.9	119.1	127.9	131.1	128.8	123.6	146.1
1.60	106.4	107.6	108.7	109.7	111.3	114.3	119.9	129.0	131.1	127.6	122.2	146.3
2.00	107.3	107.8	109.2	110.0	111.9	115.3	120.6	129.7	130.5	125.5	120.0	145.9
2.50	108.4	109.1	110.2	111.1	112.9	116.1	121.4	129.9	128.8	124.1	119.0	145.4
3.15	110.1	110.0	110.8	111.7	113.5	116.9	121.8	129.3	127.2	122.7	117.4	144.6
4.00	110.5	111.7	112.3	112.4	114.1	117.4	122.1	128.5	126.2	121.0	115.4	144.0
5.00	110.3	111.3	113.0	112.9	114.2	117.5	121.5	127.1	124.6	119.4	113.7	142.9
6.30	109.5	111.2	112.9	114.0	114.5	117.4	121.3	125.9	123.5	118.0	111.9	142.0
8.00	108.8	110.5	112.8	113.6	114.8	117.5	120.6	124.8	122.1	116.6	110.4	141.2
10.0	108.5	110.5	112.5	113.6	114.9	117.1	120.1	123.8	121.2	115.6	109.7	140.5
12.5	107.9	110.2	112.4	113.3	114.5	116.7	119.3	122.7	119.9	114.4	108.7	139.6
16.0	107.6	110.1	112.5	113.2	114.3	116.4	118.4	122.1	119.0	113.5	108.1	139.0
20.0	106.4	109.2	111.7	112.5	113.6	115.1	117.5	120.9	117.8	112.4	106.9	138.0
25.0	106.2	108.6	111.5	112.8	113.2	115.2	116.8	120.0	117.4	111.9	106.8	137.5
32.5	105.7	108.7	111.1	112.3	113.0	114.2	116.5	119.3	116.8	111.2	106.2	136.9
40.0	105.5	108.5	110.8	112.5	112.7	114.5	115.8	119.1	116.7	111.4	106.2	136.7
50.0	105.3	108.2	110.8	112.1	112.4	114.2	116.0	119.0	116.8	110.9	106.3	136.7
63.0	104.5	107.5	110.4	111.4	112.3	113.7	115.6	118.3	116.3	110.8	106.0	136.2
80.0	104.8	107.4	110.4	111.6	112.6	113.9	116.6	118.7	116.7	111.6	106.6	136.6
100.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
OSPL	121.4	122.9	124.7	125.6	126.7	129.7	132.8	139.1	139.9	138.4	136.4	OAPWL = 156.6

STAND X206 RIG ID 705306 TEST DATE 02/25/77 SCALE RATIO 12.0/1 RUN NUMBER 2008 CONDITION 8225

					PRIMARY	FAN			PRIMARY	FAN			PRIMARY	FAN		PRIMARY	FAN
TEMP	77.0(F)	25.0(C)	AREA	SQFT	8.640	11.520	SQM	0.803	1.070	MASS FLOW	LB/S	52.4	727.2	KG/S	23.8	329.9
PRES	29.41IN	1.00BAR	P.R.		1.00	4.06		1.01	4.06	THRUST,IDL	LB	673.3	63690.2	KN	2.105	283.307
WIND D			TEMP	(R)	1922.7	1950.7	(K)	1068.2	1083.7	THRUST,MEA	LB		0.0	KN	0.0	
WIND V	0MPH	0.0M/S	RHO	LB/FT3	0.021	0.029	KG/M3	0.334	0.460	AREA (MOD)	SQFT	0.060	0.080	SQM	0.006	0.007
REL H	70.0%		VEL	FPS	2566.3	2820.2	M/S	88.6	859.6	W (MODEL)	LB/S	0.4	5.1	KG/S	0.2	2.3

FAA DAY

1/3 OCTAVE BAND ENGINE JET NOISE DATA 150.0FT RADIUS (SCALED ENGINE)

BAND CENTER FREQ (KHZ)	MICROPHONE ANGLES IN DEGREES 60	70	80	90	100	110	120	130	140	150	160	POWER 1E-12W
.050	106.3	107.0	108.6	109.1	109.8	112.2	116.1	123.2	128.7	130.7	128.6	166.6
.063	107.4	107.7	109.0	110.3	111.4	113.1	117.2	124.9	130.2	131.6	128.7	167.7
.080	108.2	108.3	109.4	110.5	112.5	115.1	119.7	127.9	132.0	131.2	127.6	168.8
.100	108.4	108.9	110.1	110.7	112.6	115.5	120.7	129.5	132.7	130.4	125.2	169.3
.125	108.0	108.6	110.3	111.3	112.9	115.9	121.5	130.6	132.7	129.2	123.8	169.4
.160	108.8	109.3	110.7	111.5	113.4	116.8	122.1	131.2	132.0	127.0	121.5	169.1
.200	109.9	110.6	111.7	112.6	114.4	117.6	122.9	131.4	130.3	125.6	120.5	168.5
.250	111.6	111.5	112.3	113.2	115.0	118.4	123.3	130.8	128.7	124.2	118.9	167.6
.315	112.0	113.2	113.8	113.9	115.6	118.9	123.6	130.0	127.7	122.5	116.9	167.1
.400	111.8	112.8	114.5	114.4	115.7	119.0	123.0	128.6	126.1	120.9	115.2	166.0
.500	110.9	112.6	114.3	115.4	115.9	118.6	122.7	127.3	124.9	119.4	113.3	165.1
.630	110.2	111.9	114.2	115.0	116.2	118.9	122.0	126.2	123.5	118.0	111.8	164.2
.800	109.9	111.9	113.9	115.0	116.3	118.5	121.5	125.2	122.6	117.0	111.1	163.5
1.00	109.2	111.5	113.7	114.6	115.8	118.0	120.6	124.0	121.2	115.7	110.0	162.5
1.25	108.8	111.3	113.7	114.4	115.5	117.6	119.6	123.3	120.2	114.7	109.3	161.9
1.60	107.5	110.3	112.8	113.6	114.7	116.2	118.6	122.0	118.9	113.5	108.0	160.7
2.00	107.3	109.7	112.6	113.9	114.3	116.3	117.9	121.1	118.5	113.0	107.9	160.1
2.50	106.6	109.6	112.0	113.2	113.9	115.1	117.4	120.2	117.7	112.1	107.1	159.4
3.15	106.2	109.2	111.5	113.2	113.4	115.2	116.5	119.8	117.4	112.1	106.9	159.0
4.00	105.6	108.7	111.3	112.6	112.9	114.7	116.5	119.5	117.3	111.4	106.8	158.7
5.00	104.8	107.8	110.7	111.7	112.6	114.0	116.1	118.6	116.6	111.1	106.3	158.1
6.30	104.8	107.4	110.4	111.6	112.6	113.9	116.6	118.7	116.7	111.6	106.6	158.1
8.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

OAPWL = 179.2

OSPL	122.3	123.8	125.7	126.6	127.7	130.2	134.0	140.5	141.1	138.8	134.9
PNL	132.2	134.5	136.7	137.9	138.6	140.7	143.3	147.7	146.2	141.8	136.9

200. SIDELINE

PNL	128.2	131.2	133.8	135.2	135.8	137.4	139.2	142.5	139.4	132.8	124.3

370. SIDELINE

PNL	122.1	125.1	127.8	129.1	129.7	131.3	133.2	136.5	133.5	126.9	118.2

800. SIDELINE

PNL	113.6	116.7	119.4	120.7	121.4	122.9	124.9	128.7	125.7	119.0	109.9

2128. SIDELINE

PNL	101.7	104.2	106.7	108.0	108.7	110.6	113.2	117.6	114.6	107.9	98.7

ORIGINAL PAGE IS OF POOR QUALITY

STAND X206 RIG ID 070530 TEST DATE 03/07/77 SCALE RATIO 0.0/1 RUN NUMBER 20084 CONDITION 8401

					PRIMARY	FAN		PRIMARY	FAN			PRIMARY	FAN		PRIMARY	FAN
TEMP	81°F	27.2°C	AREA	SQFT	0.0	0.0	SQM	0.0	0.0	MASS FLOW	LB/S	0.0	0.0	KG/S	0.0	0.0
PRES	29.92IN	1.01BAR	P.R.		1.55	1.29		1.55	1.29	THRUST,IDL	LB	99.5	85.1	KN	0.443	0.379
WIND	D		TEMP	(R)	1446.7	1254.7	(K)	803.7	697.1	THRUST,MEA	LB		0.0	KN	0.0	
WIND	V OMPH	0.0M/S	RHO	LB/FT3	0.031	0.034	KG/M3	0.495	0.546	AREA (MOD)	SQFT	0.060	0.080	SQM	0.006	0.007
R:L	H 25 %		VEL	FPS	1430.3	1026.8	M/S	435.9	313.0	W (MODEL)	LB/S	2.2	2.7	KG/S	1.0	1.2

1/3 OCTAVE BAND MODEL JET NOISE DATA 15.0FT RADIUS THEORETICAL DAY SPL - (MODEL)

BAND CENTER FREQ (KHZ)	MICROPHONE ANGLES IN DEGREES 60	70	80	90	100	110	120	130	140	150	160	POWER 1E-12W
.050	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
.063	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
.080	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
.100	77.3	80	83.2	84.0	83.7	84.3	86.9	89.6	91.4	95.3	98.6	111.3
.125	77.9	82.	82.8	83.2	85.5	85.6	84.7	89.1	92.8	96.0	98.1	111.6
.160	82.9	85.8	84.3	84.2	83.3	84.1	85.1	87.6	93.1	98.0	100.6	112.9
.200	82.0	81.9	82.8	84.5	85.9	86.6	88.6	91.3	97.4	102.2	103.8	116.3
.250	83.1	83.4	84.3	86.4	87.3	88.4	90.3	93.9	99.1	103.7	105.7	118.1
.315	85.8	85.3	86.3	88.0	89.5	90.7	92.7	96.9	101.2	106.2	109.4	120.8
.400	87.9	88.3	89.1	90.3	92.5	94.0	96.2	99.8	104.9	109.6	112.2	124.0
.500	90.8	89.4	90.1	92.3	92.8	94.3	96.7	100.7	107.2	111.8	111.3	125.4
.630	91.2	90.8	91.6	93.4	94.4	95.7	98.4	103.2	108.7	113.0	112.7	126.8
.800	91.1	92.8	92.9	94.1	95.3	96.5	98.3	103.5	109.3	113.9	112.3	127.4
1.00	91.8	91.6	92.3	93.8	95.9	97.9	100.0	104.2	109.7	113.0	112.0	127.1
1.25	90.1	91.9	92.3	93.6	95.6	97.3	99.7	103.9	108.4	110.8	108.8	125.5
1.60	89.4	90.7	91.7	93.1	95.1	96.9	99.2	103.5	107.1	108.9	106.4	124.1
2.00	88.6	89.7	91.1	92.8	94.6	96.7	99.4	102.9	105.4	105.7	103.0	122.3
2.50	87.8	89.4	90.5	92.4	94.4	96.4	99.0	102.3	103.3	102.5	100.5	120.8
3.15	88.9	88.4	89.7	91.7	93.5	95.6	98.4	100.7	101.0	99.1	95.6	119.1
4.00	86.4	87.9	89.1	91.1	92.9	95.0	97.4	99.6	98.4	95.1	90.8	117.5
5.00	85.9	86.6	88.1	90.0	91.8	93.8	96.0	97.6	95.7	91.8	86.0	115.8
6.30	84.8	85.9	87.1	89.2	90.8	92.7	94.8	95.9	93.2	88.7	82.5	114.2
8.00	83.1	84.6	86.1	88.0	89.7	91.6	93.2	93.8	91.0	86.5	80.5	112.7
10.0	81.8	83.5	84.8	86.7	88.5	90.2	91.5	91.5	89.2	84.8	79.2	111.0
12.5	80.7	82.0	83.4	85.4	87.1	88.7	89.9	89.4	87.2	83.6	78.8	109.4
16.0	79.8	81.0	82.7	84.5	86.0	87.7	88.5	88.3	86.0	82.7	77.9	108.3
20.0	78.2	79.7	81.2	82.9	84.4	85.5	86.5	86.3	84.3	81.4	76.7	106.4
25.0	77.4	78.8	80.4	82.7	83.8	85.3	85.6	85.3	83.4	80.9	77.9	105.8
31.5	76.6	78.4	80.2	82.0	83.4	84.6	85.1	84.8	83.2	81.0	76.6	105.3
40.0	77.0	78.8	80.5	82.6	83.4	85.0	84.9	85.2	83.6	82.1	78.0	105.6
50.0	76.8	78.8	80.5	82.4	83.4	85.2	85.4	85.1	83.9	83.1	79.0	105.8
63.0	76.5	78.5	80.0	82.2	83.5	84.8	85.3	85.1	84.4	84.8	80.7	105.9
80.0	77.2	78.6	81.1	82.4	84.1	85.0	85.9	86.1	87.0	86.8	82.8	106.9
100.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
OSPL	101.1	101.9	102.8	104.4	106.0	107.7	110.0	113.5	117.6	121.0	120.6	OAPWL = 135.6

STAND X206 RIG ID 070530 TEST DATE 03/07/77 SCALE RATIO 12.0/1 RUN NUMBER 2008 CONDITION 8401

TEMP	77.0(F)	25.0(C)	AREA	SQFT	PRIMARY 8.640	FAN 11.520	SQM	PRIMARY 0.803	FAN 1.070			PRIMARY	FAN		PRIMARY	FAN
PRES	29.92IN	1.01BAR	P.R.		1.55	1.29		1.55	1.29	MASS FLOW	LB/S	322.6	384.5	KG/S	146.3	174.4
WIND D			TEMP	(R)	1446.7	1254.7	(K)	803.7	697.1	THRUST,IDL	LB	14327.6	12260.3	KN	63.732	54.536
WIND V		OMPH 0.0M/S	RHO	LB/FT3	0.031	0.034	KG/M3	0.495	0.546	THRUST,MEA	LB		0.0	KN	0.0	
REL H	70.0%		VEL	FPS	1430.3	1026.8	M/S	435.9	313.0	AREA (MOD)	SQFT	0.060	0.080	SQM	0.006	0.007
										W (MODEL)	LB/S	2.2	2.7	KG/S	1.0	1.2

FAA DAY

1/3 OCTAVE BAND ENGINE JET NOISE DATA 150.0FT RADIUS (SCALED ENGINE)

BAND CENTER FREQ (KHZ)	MICROPHONE ANGLES IN DEGREES 60	70	80	90	100	110	120	130	140	150	160	POWER 1E-12W
.050	92.8	92.4	93.2	95.0	96.0	97.3	100.0	104.8	110.3	114.6	114.3	
.063	92.7	94.4	94.5	95.7	96.9	98.1	99.9	105.1	110.9	115.5	113.9	149.9
.080	93.4	93.2	93.9	95.4	97.5	99.5	101.6	105.8	111.3	114.6	113.6	150.5
.100	91.7	93.5	93.9	95.2	97.2	98.9	101.3	105.5	110.0	112.4	110.4	150.3
.125	91.6	92.3	93.3	94.7	96.7	98.5	100.8	105.1	108.7	110.5	108.0	148.6
.160	90.1	91.2	92.6	94.3	96.1	98.2	100.9	104.4	106.9	107.2	104.5	147.3
.200	89.3	90.9	92.0	93.9	95.9	97.9	100.5	103.8	104.8	104.0	102.0	145.5
.250	88.4	89.9	91.2	93.2	95.0	97.1	99.9	102.2	102.5	100.6	97.1	143.9
.315	87.9	89.4	90.6	92.6	94.4	96.5	98.9	101.1	99.9	96.6	92.3	142.2
.400	87.4	88.1	89.6	91.5	93.3	95.3	97.5	99.1	97.2	93.3	87.5	140.6
.500	86.2	87.3	88.5	90.6	92.2	94.1	96.2	97.3	94.6	90.1	83.9	138.8
.630	84.5	86.0	87.5	89.4	91.1	93.0	94.6	95.2	92.4	87.9	81.9	137.2
.800	83.2	84.9	86.2	88.1	89.9	91.6	92.9	92.9	90.6	86.2	80.6	135.7
1.00	82.0	83.3	84.7	86.7	88.4	90.0	91.2	90.7	88.5	84.9	80.1	134.0
1.25	81.0	82.2	83.9	85.7	87.2	88.9	89.7	89.5	87.2	83.9	79.1	132.3
1.60	79.3	80.8	82.3	84.0	85.5	86.6	87.6	87.4	85.4	82.5	77.3	131.1
2.00	78.5	79.9	81.5	83.8	84.9	86.4	86.7	86.4	84.5	82.0	79.0	129.2
2.50	77.5	79.3	81.1	82.9	84.3	85.5	86.0	85.7	84.1	81.9	77.5	126.5
3.15	77.7	79.5	81.2	83.3	84.1	85.7	85.6	85.9	84.3	82.8	78.7	127.8
4.00	77.3	79.3	81.0	82.9	83.9	85.7	85.9	85.6	84.4	83.6	79.5	127.9
5.00	76.8	78.8	80.3	82.5	83.8	85.1	85.6	85.4	84.7	85.1	81.0	127.8
6.30	77.2	78.6	81.1	82.4	84.1	85.0	85.9	86.1	87.0	86.8	82.8	127.7
8.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	128.4
10.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
												0.0

OSPL 101.5 102.5 103.4 105.1 106.8 108.6 110.8 114.4 118.2 121.2 119.9

PNL 105.6 108.1 109.5 111.4 112.8 114.4 116.0 117.9 119.0 119.6 117.3

OAPWL = 157.5

200. SIDELINE

PNL 102.6 104.8 106.7 108.7 110.0 111.2 112.1 112.9 112.4 110.8 105.0

370. SIDELINE

PNL 96.6 98.8 100.7 102.8 104.0 105.3 106.3 107.2 106.7 105.1 99.2

800. SIDELINE

PNL 88.6 90.8 92.6 94.7 96.2 97.5 98.7 99.7 99.2 97.5 91.6

2128. SIDELINE

PNL 77.2 79.5 81.4 83.5 85.2 86.5 87.8 88.9 88.7 87.0 80.2

STAND X206 RIG ID 070530 TEST DATE 03/07/77 SCALE RATIO 12.0/1 RUN NUMBER 20084 CONDITION 8402

					PRIMARY	FAN		PRIMARY	FAN				PRIMARY	FAN		PRIMARY	FAN
TEMP	92°F 27.8°C	AREA	SQFT	0.0	0.0	SQM	0.0	0.0	MASS FLOW	LB/S	0.0	0.0	KG/S	0.0	0.0
PRES	29.92IN 1.01BAR	P.R.		1.53	1.78		1.53	1.78	THRUST,IDL	LB	92.5	208.2	KN	0.411	0.926
WIND D		TEMP	(R)	1446.7	1259.7	(K)	803.7	699.8	THRUST,MEA	LB		0.0	KN	0.0	
WIND V	0MPH 0.0M/S	RHO	LB/FT3	0.031	0.037	KG/M3	0.494	0.591	AREA (MOD)	SQFT	0.060	0.080	SQM	0.006	0.007
REL H	23 %	VEL	FPS	1418.1	1520.5	M/S	432.2	463.4	W (MODEL)	LB/S	2.1	4.4	KG/S	1.0	2.0

1/3 OCTAVE BAND MODEL JET NOISE DATA 15.0FT RADIUS THEORETICAL DAY SPL - (MODEL)

BAND CENTER FREQ (KHZ)	MICROPHONE ANGLES IN DEGREES 60	70	80	90	100	110	120	130	140	150	160	POWER 1E-12W
.050	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
.063	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
.080	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
.100	81.8	84.9	88.4	88.1	87.7	88.8	91.2	93.3	95.3	99.4	102.9	115.5
.125	82.9	87.0	87.9	88.2	90.2	90.6	89.4	93.3	97.2	100.3	102.7	116.1
.160	87.6	90.3	88.6	88.7	87.9	89.2	90.1	92.3	97.6	102.0	105.0	117.2
.200	86.7	85.7	87.6	89.2	90.4	91.4	93.5	95.7	101.7	106.7	108.5	120.9
.250	87.5	87.8	88.9	91.0	92.1	93.3	95.5	98.3	103.7	108.5	110.3	122.7
.315	90.3	89.9	90.9	92.8	94.3	95.6	97.6	101.8	106.1	111.1	114.0	125.6
.400	92.3	92.9	93.3	94.5	96.7	98.8	101.1	104.6	109.9	114.4	116.6	128.7
.500	94.3	94.1	94.8	96.4	97.2	99.2	102.0	105.7	112.3	116.5	115.6	130.1
.630	96.0	95.3	96.4	98.1	98.9	100.7	103.7	108.2	113.5	117.6	116.7	131.4
.800	95.0	96.7	97.0	98.6	100.0	101.4	103.6	108.4	113.6	117.9	116.3	131.6
1.00	96.2	96.4	97.2	98.7	100.7	102.8	105.1	108.7	113.6	117.1	116.8	131.4
1.25	95.5	96.6	97.7	99.0	100.6	102.3	105.0	108.3	112.0	114.9	114.2	129.8
1.60	94.3	95.7	96.8	98.2	100.3	102.2	104.7	108.0	110.5	112.4	111.8	128.3
2.00	93.9	95.4	96.6	98.3	100.0	102.3	104.9	107.4	109.1	109.7	108.8	126.9
2.50	93.6	95.3	96.5	98.4	100.3	102.6	105.1	107.2	107.9	107.8	107.7	126.2
3.15	93.6	94.9	96.2	98.0	100.0	102.4	105.0	106.3	106.8	106.5	105.5	125.5
4.00	93.3	94.7	95.9	97.9	99.8	102.1	104.8	105.7	105.6	104.9	103.7	124.8
5.00	92.8	93.8	95.2	97.1	99.0	101.5	103.8	104.4	103.8	103.4	101.5	123.6
6.30	92.4	93.4	94.7	96.6	98.6	101.1	103.2	103.4	102.7	101.8	99.6	122.7
8.00	91.1	92.6	93.9	96.0	97.9	100.1	102.1	102.1	101.0	100.0	97.4	121.6
10.0	89.8	91.7	93.0	95.0	96.9	99.2	101.0	100.6	99.5	98.3	95.8	120.3
12.5	89.1	90.7	92.1	94.1	96.1	98.2	99.7	99.0	97.9	96.8	94.9	119.1
16.0	88.2	89.8	91.5	93.6	95.4	97.5	98.9	98.3	96.9	95.8	94.7	118.3
20.0	86.6	86.7	90.1	92.1	94.1	95.9	97.4	96.5	95.4	94.5	93.6	116.8
25.0	85.7	87.6	89.6	91.9	93.4	95.8	96.5	95.8	94.6	93.9	93.9	116.3
31.5	85.4	87.5	89.4	91.6	93.4	95.2	96.1	95.5	94.7	93.8	92.9	115.9
40.0	85.7	87.5	89.7	91.9	93.3	95.7	95.7	96.1	94.9	94.2	93.4	116.1
50.0	85.6	87.8	89.5	91.9	93.2	95.7	96.2	95.7	94.9	94.2	93.2	116.2
63.0	85.3	87.5	89.4	91.7	93.5	95.4	96.2	95.8	94.8	94.3	93.1	116.2
80.0	88.1	88.0	90.4	92.1	94.3	95.9	96.9	96.5	96.7	95.9	94.4	117.1
100.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
OSPL	106.5	107.5	108.6	110.3	112.0	114.1	116.3	118.7	122.2	125.5	125.3	OAPWL = 140.5

STAND X206 RIG ID 070530 TEST DATE 03/07/77 SCALE RATIO 12.0/1 RUN NUMBER 2008 CONDITION 8402

					PRIMARY	FAN		PRIMARY	FAN			PRIMARY	FAN		PRIMARY	FAN
TEMP	77.0(F)	25.0(C)	AREA	SQFT	8.640	11.520	SQM	0.803	1.070	MASS FLOW	LB/S	302.4	635.0	KG/S	137.2	288.1
PRES	29.92IN	1.01BAR	P.R.		1.53	1.78		1.53	1.78	THRUST,IDL	LB	13317.6	29996.0	KN	59.239	133.384
WIND D			TEMP	(R)	1446.7	1259.7	(K)	803.7	699.8	THRUST,MEA	LB		0.0	KN	0.0	
WIND V	0MPH	0.0M/S	RHO	LB/FT3	0.031	0.037	KG/M3	0.494	0.591	AREA (MOD)	SQFT	0.060	0.080	SQM	0.006	0.007
REL H	70.0%		VEL	FPS	1418.1	1520.5	M/S	432.2	463.4	W (MODEL)	LB/S	2.1	4.4	KG/S	1.0	2.0

FAA DAY

1/3 OCTAVE BAND ENGINE JET NOISE DATA 150.0FT RADIUS (SCALED ENGINE)

BAND CENTER FREQ (KHZ)

	MICROPHONE ANGLES IN DEGREES											POWER
	60	70	80	90	100	110	120	130	140	150	160	1E-12W
.050	97.6	96.9	98.0	99.7	100.5	102.3	105.3	109.8	115.1	119.2	118.3	
.063	96.6	98.3	98.6	100.2	101.6	103.0	105.2	110.0	115.2	119.5	117.9	154.6
.080	97.8	98.0	98.8	100.3	102.3	104.4	106.7	110.3	115.2	118.7	118.4	154.7
.100	96.9	98.2	99.3	100.6	102.2	103.9	106.6	109.9	113.6	116.5	115.8	154.6
.125	95.9	97.3	98.4	99.8	101.9	103.8	106.3	109.6	112.1	114.0	113.4	153.0
.160	95.4	96.9	98.1	99.8	101.5	103.8	106.4	108.9	110.6	111.2	110.3	151.4
.200	95.1	96.8	98.0	99.9	101.8	104.1	106.6	108.7	109.4	109.3	109.2	150.0
.250	95.1	96.4	97.7	99.5	101.5	103.9	106.5	107.8	108.3	108.0	107.0	149.3
.315	94.8	96.2	97.4	99.4	101.3	103.6	106.3	107.2	107.1	106.4	105.2	148.6
.400	94.3	95.3	96.7	98.6	100.5	103.0	105.3	105.9	105.3	104.9	103.0	147.9
.500	93.8	94.8	96.1	98.0	100.0	102.5	104.6	104.8	104.1	103.2	101.0	146.7
.630	92.5	94.0	95.3	97.4	99.3	101.5	103.5	103.5	102.4	101.4	98.8	145.7
.800	91.2	93.1	94.4	96.4	98.3	100.6	102.4	102.0	100.9	99.7	97.2	144.6
1.00	90.4	92.0	93.4	95.4	97.4	99.5	101.0	100.3	99.2	98.1	96.2	143.3
1.25	89.4	91.0	92.7	94.8	96.6	98.7	100.1	99.5	98.1	97.0	95.9	142.0
1.60	87.7	89.8	91.2	93.2	95.2	97.0	98.5	97.6	96.5	95.6	94.7	141.2
2.00	85.8	88.7	90.7	93.0	94.5	96.9	97.6	96.9	95.7	95.0	95.0	139.6
2.50	85.3	88.4	90.3	92.5	94.3	96.1	97.0	96.4	95.6	94.7	93.8	138.9
3.15	85.4	88.2	90.4	92.6	94.0	96.4	96.4	96.8	95.6	94.9	94.1	138.4
4.00	86.1	88.3	90.0	92.4	93.7	96.2	96.7	96.2	95.4	94.7	93.7	138.4
5.00	85.6	87.8	89.7	92.0	93.8	95.7	96.5	96.1	95.1	94.6	93.4	138.2
6.30	86.1	88.0	90.4	92.1	94.3	95.9	96.9	96.5	96.7	95.9	94.4	138.0
8.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	138.6
10.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
												0.0

OSPL 107.1 108.3 109.4 111.2 112.9 115.1 117.3 119.6 122.6 125.5 124.7

PNL 114.2 115.9 117.5 119.5 121.2 123.4 124.7 125.3 125.5 126.6 125.7

OAPWL = 162.4

200. SIDELINE

PNL 110.2 112.6 114.7 116.9 118.4 120.2 120.6 120.1 118.9 117.7 113.2

370. SIDELINE

PNL 104.1 106.6 108.7 110.9 112.4 114.1 114.6 114.2 113.0 111.8 107.2

800. SIDELINE

PNL 95.9 98.2 100.4 102.6 104.2 105.8 106.7 106.4 105.3 104.0 99.1

2129. SIDELINE

PNL 84.4 86.8 88.9 91.0 92.7 94.4 95.5 95.3 94.4 93.3 87.9

STAND X206 RIG ID 070530 TEST DATE 03/07/77 SCALE RATIO 12.0/1 RUN NUMBER 20084 CONDITION 8403

					PRIMARY	FAN		PRIMARY	FAN				PRIMARY	FAN		PRIMARY	FAN
TEMP	82°F	27.8°C	AREA	SQFT	0.0	0.0	SQM	0.0	0.0	MASS FLOW	LB/S		0.0	0.0	KG/S	0.0	0.0
PRES	29.92IN	1.01BAR	P.R.		1.54	2.49		1.54	2.49	THRUST,IDL	LB		82.1	366.0	KN	0.365	1.628
WIND D			TEMP	(R)	1466.7	1261.7	(K)	814.8	700.9	THRUST,MEA	LB			0.0	KN	0.0	
WIND V	OMPH	0.0M/S	RHO	LB/FT3	0.030	0.040	KG/M3	0.487	0.644	AREA (MOD)	SQFT		0.060	0.080	SQM	0.006	0.007
REL H	22 %		VEL	FPS	1429.3	1873.5	M/S	435.7	571.0	W (MODEL)	LB/S		1.9	6.3	KG/S	0.8	2.9

1/3 OCTAVE BAND MODEL JET NOISE DATA 15.0FT RADIUS THEORETICAL DAY SPL - (MODEL)

BAND CENTER FREQ (KHZ)	MICROPHONE ANGLES IN DEGREES 60	70	80	90	100	110	120	130	140	150	160	POWER 1E-12W
.050	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
.063	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
.080	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
.100	86.6	89.8	93.1	92.3	91.8	92.7	94.3	96.4	98.4	102.9	106.9	119.1
.125	87.7	91.2	92.4	92.8	94.6	94.5	93.3	96.6	100.4	104.3	107.3	120.1
.160	92.4	94.9	92.9	93.1	92.2	92.8	93.6	95.8	101.2	106.3	109.6	121.4
.200	91.4	91.1	92.1	93.7	94.8	95.6	97.4	99.7	105.6	110.8	113.0	125.1
.250	92.1	92.1	93.3	95.3	95.9	97.1	98.9	102.3	107.8	112.7	115.0	127.0
.315	94.1	93.3	94.8	96.8	98.2	99.3	101.2	105.5	110.1	115.5	118.6	129.9
.400	97.0	97.2	97.6	98.8	100.8	102.6	104.5	108.3	114.0	118.5	121.2	132.9
.500	98.9	98.0	99.1	100.2	100.9	102.7	105.3	109.4	116.3	120.9	120.1	134.4
.630	100.8	100.0	100.3	102.2	102.9	104.3	107.1	112.1	117.8	121.8	120.9	135.6
.800	99.7	100.9	101.1	102.9	103.9	105.1	107.1	112.2	117.7	122.0	120.7	135.7
1.00	101.4	101.3	101.7	103.2	104.8	106.9	108.8	113.0	117.7	121.4	121.5	135.7
1.25	101.5	101.6	102.9	104.1	105.2	106.5	109.1	112.9	116.4	119.9	120.4	134.7
1.60	100.8	102.0	102.8	103.9	105.3	107.0	109.1	112.8	115.4	119.3	119.8	134.2
2.00	101.5	101.7	102.5	104.0	105.5	107.3	109.8	112.7	114.5	118.2	118.5	133.5
2.50	100.6	101.4	102.3	104.2	105.6	107.6	110.3	113.0	114.1	118.1	119.1	133.6
3.15	100.9	101.3	102.2	103.8	105.5	107.7	110.4	112.5	114.1	118.3	118.0	133.4
4.00	100.1	100.9	101.9	103.6	105.5	107.8	110.5	112.4	114.3	117.9	116.5	133.2
5.00	100.0	100.3	101.4	103.0	104.8	107.4	110.0	111.5	113.8	116.9	114.1	132.3
6.30	102.4	100.8	101.2	102.8	104.7	107.1	109.9	111.2	113.9	115.5	112.2	131.7
8.00	102.9	102.6	101.8	102.7	104.3	106.5	109.3	110.1	112.9	113.6	110.4	130.8
10.0	102.1	103.1	102.9	103.1	104.0	106.3	108.4	109.4	111.8	112.3	109.0	130.0
12.5	100.2	101.8	102.8	103.5	103.6	105.6	107.6	108.1	109.9	111.1	107.9	128.9
16.0	99.0	100.3	101.8	103.3	103.8	105.4	107.1	107.6	108.9	110.2	107.5	128.3
20.0	97.2	98.9	100.3	101.7	103.0	104.3	106.0	106.1	107.6	109.2	106.5	127.1
25.0	96.2	98.0	99.5	101.6	102.6	104.6	105.4	105.5	106.8	108.6	106.7	126.7
31.5	95.6	97.9	99.6	101.1	102.6	104.3	105.5	105.5	106.8	108.6	106.3	126.5
40.0	95.7	97.8	99.8	101.6	102.5	104.9	105.2	106.0	107.1	109.4	107.0	126.9
50.0	95.3	97.7	99.4	101.4	102.3	104.8	105.7	106.0	107.3	109.5	107.4	127.0
63.0	95.1	97.3	99.1	101.2	102.7	104.5	105.6	106.2	107.2	109.9	107.2	127.1
80.0	95.5	97.7	100.0	101.6	103.3	104.8	106.4	107.1	109.2	111.6	108.9	128.2
100.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
OSPL	113.8	114.4	115.2	116.6	117.9	119.8	122.0	124.4	127.7	131.4	131.3	OAPWL = 146.3

STAND X206 RIG ID 070530 TEST DATE 03/07/77 SCALE RATIO 12.0/1 RUN NUMBER 2008 CONDITION 8403

				PRIMARY	FAN		PRIMARY	FAN
TEMP	77.0(F)	25.0(C)	AREA SQFT	8.640	11.520	SQM	0.803	1.070
PRES	29.92IN	1.01BAR	P.R.	1.54	2.49		1.54	2.49
WIND D			TEMP (R)	1466.7	1261.7	(K)	814.8	700.9
WIND V	OMPH	0.0M/S	RHO LB/FT3	0.030	0.040	KG/M3	0.487	0.644
REL H	70.0%		VEL FPS	1429.3	1873.5	M/S	435.7	571.0

		PRIMARY	FAN		PRIMARY	FAN
MASS FLOW	LB/S	266.4	905.8	KG/S	120.8	410.9
THRUST,IDL	LB	11825.2	52700.4	KN	52.601	234.422
THRUST,MEA	LB		0.0	KN	0.0	
AREA (NOD)	SQFT	0.060	0.080	SQM	0.006	0.007
W (MODEL)	LB/S	1.9	6.3	KG/S	0.8	2.9

FAA DAY

1/3 OCTAVE BAND ENGINE JET NOISE DATA 150.0FT RADIUS (SCALED ENGINE)

BAND CENTER FREQ (KHZ)	MICROPHONE ANGLES IN DEGREES 60	70	80	90	100	110	120	130	140	150	160	POWER 1E-12W
.050	102.4	101.6	101.9	103.8	104.5	105.9	108.7	113.7	119.4	123.4	122.5	
.063	101.3	102.5	102.7	104.5	105.5	106.7	108.7	113.8	119.3	123.6	122.3	158.7
.080	103.0	102.9	103.3	104.8	106.4	108.5	110.4	114.6	119.3	123.0	123.1	158.8
.100	103.1	103.2	104.5	105.7	106.8	108.1	110.7	114.5	118.0	121.5	122.0	158.9
.125	102.4	103.6	104.4	105.5	106.9	108.6	110.7	114.4	117.0	120.9	121.4	157.9
.160	103.0	103.2	104.0	105.5	107.0	108.8	111.3	114.2	116.0	119.7	120.0	157.4
.200	102.1	102.9	103.8	105.7	107.1	109.1	111.8	114.5	115.6	119.6	120.6	156.6
.250	102.4	102.8	103.7	105.3	107.0	109.2	111.9	114.0	115.6	119.8	119.5	156.7
.315	101.6	102.4	103.4	105.1	107.0	109.3	112.0	113.9	115.8	119.4	118.0	156.5
.400	101.5	101.8	102.9	104.5	106.3	108.9	111.5	113.0	115.3	118.4	115.6	156.3
.500	103.8	102.2	102.6	104.2	106.1	108.5	111.3	112.6	115.3	116.9	113.6	155.4
.630	104.3	104.0	103.2	104.1	105.7	107.9	110.7	111.5	114.3	115.0	111.8	154.7
.800	103.5	104.5	104.3	104.5	105.4	107.7	109.8	110.8	113.2	113.7	110.4	153.8
1.00	101.5	103.1	104.1	104.8	104.9	106.9	108.9	109.4	111.2	112.4	109.2	153.0
1.25	100.2	101.5	103.0	104.5	105.0	106.6	108.3	108.8	110.1	111.4	108.7	151.8
1.60	98.3	100.0	101.4	102.8	104.1	105.4	107.1	107.2	108.7	110.3	107.6	151.1
2.00	97.3	99.1	100.6	102.7	103.7	105.7	106.5	106.6	107.9	109.7	107.8	149.8
2.50	96.5	98.8	100.5	102.0	103.5	105.2	106.4	106.4	107.7	109.5	107.2	149.3
3.15	96.4	98.5	100.5	102.3	103.2	105.6	105.9	106.7	107.8	110.1	107.7	149.0
4.00	95.8	98.2	99.9	101.9	102.8	105.3	106.2	106.5	107.8	110.0	107.9	149.2
5.00	95.4	97.6	99.4	101.5	103.0	104.8	105.9	106.5	107.5	110.2	107.5	149.0
6.30	95.5	97.7	100.0	101.6	103.3	104.8	106.4	107.1	109.2	111.6	108.9	148.9
8.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	149.7
10.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
												0.0
OSPL	114.8	115.4	116.2	117.6	118.9	120.9	123.1	125.4	128.5	131.9	131.3	OAPWL = 168.6
PNL	123.5	124.9	126.3	127.9	129.0	131.1	132.6	133.7	135.5	139.0	136.2	

200. SIDELINE

PNL	119.4	121.6	123.4	125.2	126.2	127.8	128.5	128.5	128.6	128.6	123.3

370. SIDELINE

PNL	113.4	115.6	117.4	119.2	120.2	121.8	122.3	122.3	122.4	122.3	117.1

800. SIDELINE

PNL	105.1	107.2	109.0	110.8	111.8	113.3	114.0	113.8	114.1	114.1	108.6

2128. SIDELINE

PNL	93.5	95.1	96.3	98.1	99.3	100.9	102.1	102.3	102.4	102.3	96.8

STAND X206 RIG ID 070530 TEST DATE 03/07/77 SCALE RATIO 12.0/1 RUN NUMBER 20084 CONDITION 8404

				PRIMARY	FAN		PRIMARY	FAN			PRIMARY	FAN		PRIMARY	FAN
TEMP	83°F	28.3°C	AREA SQFT	0.0	0.0	SQM	0.0	0.0	MASS FLOW	LB/S	0.0	0.0	KG/S	0.0	0.0
PRES	29.92IN	1.01BAR	P.R.	1.53	3.19		1.53	3.19	THRUST,IDL	LB	69.3	528.9	KN	0.304	2.353
WIND D			TEMP (R)	1463.7	1251.7	(K)	813.2	695.4	THRUST,MEA	LB		0.0	KN	0.0	
WIND V	0MPH	0.0M/S	RHO LB/FT3	0.030	0.043	KG/M3	0.487	0.693	AREA (MOD)	SQFT	0.060	0.080	SQM	0.006	0.007
REL H	22 90		VEL FPS	1418.9	2071.9	M/S	432.5	631.5	W (MODEL)	LB/S	1.6	8.2	KG/S	0.7	3.7

1/3 OCTAVE BAND MODEL JET NOISE DATA 15.0FT RADIUS THEORETICAL DAY SPL - (MODEL)

BAND CENTER FREQ (KHZ)	MICROPHONE ANGLES IN DEGREES 60	70	80	90	100	110	120	130	140	150	160	POWER 1E-12W
.050	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
.063	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
.080	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
.100	89.9	93.1	95.6	95.1	94.8	95.6	96.9	98.6	100.5	105.6	110.1	121.9
.125	91.4	94.6	95.3	95.9	97.3	97.0	96.0	99.0	102.8	106.9	110.4	122.9
.160	93.3	98.3	96.1	96.4	95.9	95.9	96.6	98.2	103.8	109.0	112.7	124.3
.200	95.2	94.6	95.4	96.7	97.5	98.4	100.2	102.2	108.1	113.3	116.0	127.7
.250	95.6	94.9	96.3	97.9	98.7	100.0	101.5	104.3	110.0	115.2	118.1	129.6
.315	96.9	96.1	97.5	99.6	101.1	102.1	103.7	107.5	112.3	118.2	122.1	132.3
.400	100.4	100.1	100.1	101.1	103.3	105.1	107.0	110.7	116.7	121.8	125.0	136.2
.500	101.5	101.0	101.7	102.6	103.3	105.1	107.4	111.7	119.2	124.1	123.5	137.4
.630	102.8	102.4	102.9	104.6	105.3	106.6	109.3	114.8	120.8	125.3	124.7	138.9
.800	103.4	103.3	103.8	105.4	106.8	107.4	109.5	115.1	121.1	126.0	124.5	139.3
1.00	104.0	104.4	104.6	105.9	107.6	109.9	111.6	116.1	121.6	126.0	125.8	139.8
1.25	105.2	105.0	106.2	107.2	108.4	109.7	112.1	116.3	120.8	125.6	125.2	139.4
1.60	104.2	105.7	106.3	106.9	108.4	110.0	112.3	116.6	119.9	125.6	125.2	139.3
2.00	104.7	104.7	105.7	107.0	108.3	110.1	112.9	116.5	119.8	125.2	123.9	138.9
2.50	104.1	104.6	105.4	106.8	108.2	110.2	113.4	116.8	120.0	125.0	123.3	138.8
3.15	107.3	105.5	105.1	106.4	108.1	110.3	113.7	116.8	120.5	124.4	120.6	138.4
4.00	113.4	110.7	107.2	106.7	108.3	110.4	113.8	117.1	121.3	122.6	118.2	138.2
5.00	111.6	112.9	111.9	108.4	108.1	110.4	113.5	116.5	120.7	120.4	115.9	137.5
6.30	109.0	110.3	111.9	111.8	109.5	110.4	113.4	116.3	120.1	118.8	114.0	136.9
8.00	109.1	108.7	109.6	111.5	111.0	110.7	113.2	115.4	118.3	117.5	112.3	135.9
10.0	108.7	109.8	109.1	109.8	111.4	111.3	112.9	114.6	117.3	116.3	111.2	135.3
12.5	107.6	108.8	109.9	109.6	109.9	111.5	112.5	113.5	115.7	115.0	110.1	134.4
16.0	106.9	108.4	109.4	110.0	109.9	111.2	112.4	113.1	115.1	114.3	109.7	134.1
20.0	105.3	107.3	108.3	109.0	109.4	110.2	111.4	112.0	114.1	113.3	108.6	133.1
25.0	104.2	106.3	108.0	109.2	109.4	110.4	111.1	111.6	113.4	112.8	108.8	132.8
31.5	103.9	106.0	107.9	109.1	109.7	110.3	111.2	111.4	113.6	112.9	109.4	132.7
40.0	104.1	106.4	108.4	109.6	110.0	111.3	111.2	112.4	114.2	113.9	109.4	133.4
50.0	104.1	106.6	108.4	110.0	110.4	111.7	112.3	112.6	114.7	114.2	110.1	133.8
63.0	104.0	106.5	108.3	109.9	111.2	112.0	112.7	113.3	115.2	114.8	110.4	134.3
80.0	104.8	107.0	109.6	111.0	112.5	113.1	114.2	114.9	117.9	116.9	112.3	136.0
100.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
OSPL	120.7	121.2	121.8	122.5	123.1	124.2	126.1	128.7	132.7	136.1	135.2	OAPWL = 151.0

5.1C-7

STAND X206 RIG ID 070530 TEST DATE 03/07/77 SCALE RATIO 12.0/1 RUN NUMBER 2008 CONDITION 8404

			PRIMARY	FAN		PRIMARY	FAN		PRIMARY	FAN		PRIMARY	FAN
TEMP 77.0(F) 25.0(C)	AREA	SQFT	8.640	11.520	SQM	0.803	1.070	MASS FLOW LB/S	223.2	1183.7	KG/S	101.2	536.9
PRES 29.92IN 1.01BAR	P.R.		1.53	3.19		1.53	3.19	THRUST,IDL LB	9835.1	76165.1	KN	43.748	338.798
WIND D	TEMP	(R)	1463.7	1251.7	(K)	813.2	695.4	THRUST,MEA LB		0.0	KN	0.0	
WIND V 0MPH 0.0M/S	RHO	LB/FT3	0.030	0.043	KG/M3	0.487	0.693	AREA (MOD) SQFT	0.060	0.080	SQM	0.006	0.007
REL H 70.0%	VEL	FPS	1410.9	2071.9	M/S	432.5	631.5	W (MODEL) LB/S	1.6	8.7	KG/S	0.7	3.7

FAR DAY

1/3 OCTAVE BAND ENGINE JET NOISE DATA 150.0FT RADIUS (SCALED ENGINE)

BAND CENTER FREQ (KHZ)	MICROPHONE ANGLES IN DEGREES 60	70	80	90	100	110	120	130	140	150	160	POWER 1E-12W
.050	104.4	104.0	104.5	106.2	106.9	108.2	110.9	116.4	122.4	126.9	126.3	
.063	104.0	104.9	105.4	107.0	108.4	109.0	111.1	116.7	122.7	127.6	126.1	162.0
.080	105.6	106.0	106.2	107.5	109.2	111.5	113.2	117.7	123.2	127.6	127.4	162.5
.100	106.8	106.6	107.8	108.8	110.0	111.3	113.7	117.9	122.4	127.2	126.8	163.0
.125	105.8	107.3	107.9	108.5	110.0	111.6	113.9	118.2	121.5	127.2	126.3	162.6
.160	106.2	106.2	107.2	108.5	109.8	111.6	114.4	118.0	121.3	126.7	125.4	162.5
.200	105.6	106.1	106.9	108.3	109.7	111.7	114.9	118.3	121.5	126.5	124.8	162.0
.250	103.8	106.8	106.6	107.9	109.6	111.8	115.2	119.3	122.0	125.9	122.1	161.9
.315	114.9	112.2	108.7	108.2	109.8	111.9	115.3	118.6	122.8	124.1	119.7	161.5
.400	113.3	114.4	113.4	109.9	109.6	111.9	115.0	118.0	122.2	121.9	117.4	161.3
.500	110.4	111.7	113.3	113.2	110.9	111.8	114.9	117.7	121.5	120.2	115.4	160.6
.630	110.5	110.1	111.0	112.9	112.4	112.1	114.6	116.8	119.7	118.9	113.7	159.9
.800	110.1	111.2	110.5	111.2	112.8	112.7	114.3	116.0	118.7	117.7	112.6	158.9
1.00	108.9	110.1	111.2	110.9	111.2	112.8	113.8	114.8	117.0	116.3	111.4	158.2
1.25	108.1	109.6	110.6	111.2	111.1	112.4	113.6	114.3	116.3	115.5	110.9	157.3
1.60	106.4	108.4	109.4	110.1	110.5	111.3	112.5	113.1	115.2	114.4	109.7	156.9
2.00	105.3	107.4	109.1	110.3	110.5	111.5	112.2	112.7	114.5	113.9	109.9	155.8
2.50	104.8	106.9	108.8	110.0	110.6	111.2	112.1	112.3	114.5	113.8	109.3	155.4
3.15	104.8	107.1	109.1	110.3	110.7	112.0	111.9	113.1	114.9	114.6	110.1	155.2
4.00	104.6	107.1	108.9	110.5	110.9	112.2	112.8	113.1	115.2	114.7	110.6	155.6
5.00	104.3	106.8	108.6	110.2	111.5	112.3	113.0	113.6	115.5	115.1	110.7	155.9
6.30	104.8	107.0	109.6	111.0	112.5	113.1	114.2	114.9	117.9	116.9	112.3	156.1
8.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	157.5
10.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
												0.0

OAPWL = 173.5

OSPL	121.9	122.4	122.9	123.4	124.0	125.2	127.1	129.8	133.7	136.9	135.4	
PNL	131.2	132.7	134.0	135.0	135.6	136.7	138.0	139.4	142.3	142.8	139.4	

200. SIDELINE

PNL	127.1	129.4	131.1	132.3	132.7	133.4	133.8	134.1	135.1	133.4	126.7	

370. SIDELINE

PNL	121.0	123.3	125.1	126.2	126.5	127.2	127.6	127.9	128.7	127.3	120.5	

800. SIDELINE

PNL	113.2	114.9	116.6	117.7	118.0	118.6	118.9	119.1	120.3	119.1	112.1	

2128. SIDELINE

PNL	101.7	103.4	104.2	104.7	104.9	105.3	106.2	107.2	108.5	107.6	100.5	

STAND X206 RIG ID 705308 TEST DATE 03/10/77 SCALE RATIO 12.0/1 RUN NUMBER 20084 CONDITION 8405

				PRIMARY	FAN		PRIMARY	FAN			PRIMARY	FAN		PRIMARY	FAN
TEMP	68°F 31.1°C	AREA	SQFT	0.0	0.0	SQM	0.0	0.0	MASS FLOW	LB/S	0.0	0.0	KG/S	0.0	0.0
PRES	30.11IN 1.028AR	P.R.		1.53	1.77		1.53	1.77	THRUST,IDL	LB	91.7	219.0	KN	0.408	0.974
WIND D		TEMP	(R)	1418.7	1974.7	(K)	788.2	1097.1	THRUST,MEA	LB		0.0	KN	0.0	
WIND V	0MPH 0.0M/S	RHO	LB/FT3	0.031	0.023	KG/M3	0.503	0.372	AREA (MOD)	SQFT	0.060	0.080	SQM	0.006	0.007
REL H	18 %	VEL	FPS	1399.7	1900.9	M/S	426.6	579.4	W (MODEL)	LB/S	2.1	3.7	KG/S	1.0	1.7

1/3 OCTAVE BAND MODEL JET NOISE DATA 15.0FT RADIUS THEORETICAL DAY SPL - (MODEL)

BAND CENTER FREQ (KHZ)	MICROPHONE ANGLES IN DEGREES 60	70	80	90	100	110	120	130	140	150	160	POWER 1E-12W
.050	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
.063	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
.080	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
.100	83.3	86.5	89.1	89.5	89.1	90.2	92.3	94.7	96.0	99.9	103.8	116.4
.125	83.8	88.4	89.3	90.6	92.7	92.2	91.9	96.1	99.5	101.9	104.8	118.2
.160	89.7	92.2	90.8	90.5	90.1	90.9	92.1	94.0	99.1	103.5	106.9	116.9
.200	89.1	88.2	88.7	90.3	91.2	92.3	94.7	97.3	103.4	107.8	109.8	122.2
.250	89.9	89.7	90.7	92.8	93.9	95.1	97.0	100.7	105.7	110.3	112.3	124.7
.315	92.5	91.9	93.2	94.6	95.7	96.9	99.5	104.0	107.8	112.5	115.3	127.1
.400	94.9	95.1	95.3	96.0	97.8	99.6	103.0	107.1	111.7	115.6	118.1	130.3
.500	96.4	95.3	96.3	97.9	98.6	100.3	103.4	107.7	114.0	117.8	116.9	131.6
.630	96.7	96.4	97.8	99.1	100.2	101.8	105.3	109.8	114.8	116.0	117.5	132.3
.800	96.7	98.2	98.9	99.9	101.2	102.5	105.5	110.2	114.4	118.1	117.6	132.3
1.00	97.7	98.2	99.4	100.2	102.0	104.1	107.0	110.7	113.8	117.1	117.7	132.0
1.25	97.0	98.8	99.8	100.8	102.4	104.0	107.3	110.3	112.4	115.3	115.8	130.9
1.60	96.9	98.4	99.8	100.7	102.4	104.1	107.3	110.3	111.4	114.0	114.6	130.2
2.00	97.2	98.3	99.7	101.1	102.8	104.8	108.1	110.0	110.5	112.6	113.1	129.5
2.50	97.2	98.5	99.8	101.4	103.2	105.3	108.4	110.0	110.1	112.2	113.5	129.5
3.15	97.3	98.6	100.0	101.4	103.6	105.8	108.7	109.6	110.3	112.3	112.4	129.6
4.00	95.6	98.1	99.6	101.1	103.4	105.8	108.6	109.1	109.8	111.7	111.4	129.2
5.00	95.9	97.2	98.9	100.6	103.0	105.4	108.0	108.2	109.2	110.9	109.5	128.4
6.30	95.7	96.5	98.5	100.3	102.8	105.2	107.7	107.7	108.6	109.7	107.6	127.8
8.00	94.1	95.9	97.9	99.7	101.9	104.5	106.8	106.5	107.6	108.0	105.9	126.7
10.0	92.8	95.0	97.1	98.9	101.2	103.7	105.9	105.4	106.3	106.4	104.2	125.6
12.5	92.2	94.0	96.0	98.0	100.4	102.7	104.6	104.0	104.5	105.0	103.2	124.3
16.0	91.3	93.2	95.6	97.5	99.9	102.1	103.9	103.1	103.0	103.9	102.5	123.5
20.0	89.9	92.1	94.5	96.4	98.8	100.8	102.5	101.4	101.5	102.8	101.5	122.2
25.0	89.3	91.6	94.0	96.2	98.3	100.5	101.6	100.8	100.8	102.3	101.6	121.7
31.5	89.3	91.9	94.2	96.0	98.4	100.3	101.4	100.7	100.9	102.1	101.2	121.5
40.0	89.7	92.0	94.6	96.7	98.4	100.8	101.2	101.1	100.9	102.7	101.7	121.8
50.0	89.9	92.1	94.6	96.6	98.3	100.6	101.8	101.1	101.1	102.8	101.9	121.9
63.0	89.8	92.2	94.7	96.7	98.8	100.6	101.7	101.3	100.9	102.9	101.7	122.0
80.0	90.4	92.9	95.7	97.2	99.3	101.0	102.5	101.8	102.3	104.1	102.6	122.8
100.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
OSPL	109.0	110.2	111.7	113.2	115.1	117.2	119.7	121.5	124.0	126.9	127.3	OAPWL = 142.6

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STAND X206 RIG ID 705308 TEST DATE 03/10/77 SCALE RATIO 12.0/1 RUN NUMBER 2008 CONDITION 8405

				PRIMARY	FAN		PRIMARY	FAN				PRIMARY	FAN		PRIMARY	FAN
TEMP	77.0(F)	25.0(C)	AREA SQFT	8.640	11.520	SQM	0.803	1.070	MASS FLOW	LB/S	303.8	534.2	KG/S	137.8	242.3
PRES	30.11IN	1.02BAR	P.R.	1.53	1.77		1.53	1.77	THRUST,IDL	LB	13207.8	31537.8	KN	58.751	140.287
WIND D			TEMP (R)	1418.7	1974.7	(K)	788.2	1097.1	THRUST,MEA	LB		0.0	KN	0.0	
WIND V	0MPH	0.0M/S	RHO LB/FT3	0.031	0.023	KG/M3	0.503	0.372	AREA (MOD)	SQFT	0.060	0.080	SQM	0.006	0.007
REL H	70.0%		VEL FPS	1399.7	1900.9	M/S	426.6	579.4	W (MODEL)	LB/S	2.1	3.7	KG/S	1.0	1.7

FAA DAY

1/3 OCTAVE BAND ENGINE JET NOISE DATA 150.0FT RADIUS (SCALED ENGINE)

BAND CENTER FREQ (KHZ)	MICROPHONE ANGLES IN DEGREES 60	70	80	90	100	110	120	130	140	150	160	POWER 1E-12W
.050	98.3	98.0	99.4	100.7	101.8	103.4	106.9	111.4	116.4	119.6	119.1	
.063	98.3	99.8	100.5	101.5	102.8	104.1	107.1	111.8	116.0	119.7	119.2	155.4
.080	99.3	99.8	101.0	101.8	103.6	105.7	108.6	112.3	115.4	118.7	119.3	155.5
.100	98.6	100.4	101.4	102.4	104.0	105.6	108.9	111.9	114.0	116.9	117.4	155.2
.125	98.5	100.0	101.4	102.3	104.0	105.7	108.9	111.9	113.0	115.6	116.2	154.0
.160	98.7	99.8	101.2	102.6	104.3	106.3	109.6	111.5	112.0	114.1	114.6	153.3
.200	98.7	100.0	101.3	102.9	104.7	106.8	109.9	111.5	111.6	113.7	115.0	152.6
.250	98.8	100.1	101.5	102.9	105.1	107.3	110.2	111.1	111.8	113.8	113.9	152.7
.315	98.1	99.6	101.1	102.6	104.9	107.3	110.1	110.6	111.3	113.2	112.9	152.7
.400	97.4	98.7	100.4	102.1	104.5	106.9	109.5	109.7	110.7	112.4	111.0	152.2
.500	97.1	97.9	99.9	101.7	104.2	106.6	109.1	109.1	110.0	111.1	109.0	151.5
.630	95.5	97.3	99.3	101.1	103.3	105.9	108.2	107.9	109.0	109.4	107.3	150.8
.800	94.2	96.4	98.5	100.3	102.6	105.1	107.3	106.8	107.7	107.8	105.6	149.7
1.00	93.5	95.3	97.3	99.3	101.7	104.0	105.9	105.3	105.8	106.3	104.5	148.6
1.25	92.5	94.4	96.8	98.7	101.1	103.3	105.0	104.3	104.2	105.0	103.7	147.2
1.60	91.0	93.2	95.6	97.5	99.9	101.9	103.6	102.5	102.6	103.9	102.6	146.3
2.00	90.4	92.7	95.1	97.3	99.4	101.9	102.7	101.9	101.9	103.4	102.7	144.9
2.50	90.2	92.8	95.1	96.9	99.3	101.2	102.3	101.6	101.7	103.0	102.1	144.3
3.15	90.4	92.7	95.3	97.4	99.1	101.5	101.9	101.8	101.6	103.4	102.4	144.0
4.00	90.4	92.6	95.1	97.1	98.8	101.1	102.3	101.6	101.6	103.3	102.4	144.1
5.00	90.1	92.5	95.0	97.0	99.1	100.9	102.0	101.6	101.1	103.2	102.0	144.0
6.30	90.4	92.9	95.7	97.2	99.3	101.0	102.5	101.8	102.3	104.1	102.6	143.9
8.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	144.3
10.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
												0.0

OAPWL = 164.7

OSPL	109.7	111.1	112.6	114.1	116.1	118.2	120.8	122.4	124.4	127.0	127.0
PNL	117.7	119.6	121.8	123.6	125.5	127.8	129.4	129.6	130.1	131.9	131.2

200. SIDELINE

PNL	113.6	116.3	118.9	120.9	122.7	124.5	125.3	124.4	123.2	122.6	118.2

370. SIDELINE

PNL	107.6	110.3	112.9	114.9	116.7	118.4	119.2	118.3	117.2	116.4	112.0

800. SIDELINE

PNL	99.1	101.9	104.6	106.6	108.4	110.0	111.0	110.2	109.2	108.2	103.6

2128. SIDELINE

PNL	87.6	90.3	92.7	94.6	96.6	98.2	99.6	98.9	97.7	96.6	91.7

STAND X206 RIG ID 705308 TEST DATE 03/10/77 SCALE RATIO 12.0/1 RUN NUMBER 20084 CONDITION 8406

					PRIMARY	FAN			PRIMARY	FAN			PRIMARY	FAN			PRIMARY	FAN
TEMP	88°F	31.1°C	AREA	SQFT	0.0	0.0	SQM		0.0	0.0	MASS FLOW	LB/S	0.0	0.0	KG/S		0.0	0.0
PRES	30.11IN	1.02BAR	P.R.		1.53	2.48			1.53	2.48	THRUST,IDL	LB	80.7	379.0	KN		0.359	1.686
WIND D			TEMP	(R)	1422.7	1958.7		(K)	790.4	1088.2	THRUST,MEA	LB		0.0	KN		0.0	
WIND V	OMPH	0.0M/S	RHO	LB/FT3	0.031	0.025		KG/M3	0.502	0.407	AREA (MOD)	SQFT	0.060	0.080	SQM		0.006	0.007
REL H	17 %		VEL	FPS	1397.3	2342.2		M/S	425.9	713.9	W (MODEL)	LB/S	1.9	5.2	KG/S		0.8	2.4

1/3 OCTAVE BAND MODEL JET NOISE DATA 15.0FT RADIUS THEORETICAL DAY SPL - (MODEL)

BAND CENTER FREQ (KHZ)	MICROPHONE ANGLES IN DEGREES 60	70	80	90	100	110	120	130	140	150	160	POWER 1E-12W
.050	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
.063	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
.080	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
.100	87.8	91.3	93.6	93.6	93.1	94.3	95.9	98.2	99.7	104.2	108.4	0.0
.125	88.6	92.7	93.4	94.8	96.6	95.9	95.4	99.4	102.9	106.1	109.5	0.0
.160	94.4	96.6	94.8	94.9	94.4	94.8	95.9	97.6	102.9	107.7	111.7	120.5
.200	93.5	92.2	92.6	94.6	95.6	96.8	98.6	101.1	107.1	111.9	114.3	122.2
.250	94.4	94.2	95.0	96.7	97.8	99.2	100.6	104.1	109.6	114.8	117.1	123.2
.315	96.5	95.4	96.9	98.5	99.9	100.6	103.1	107.7	111.7	117.0	120.2	126.3
.400	99.4	99.1	99.2	99.8	101.8	103.8	106.8	110.9	115.8	120.2	123.0	129.0
.500	100.4	99.2	99.9	101.6	102.3	104.1	106.9	111.9	118.6	122.7	121.7	131.5
.630	101.1	100.8	101.7	103.2	103.9	105.5	109.0	114.4	119.7	123.2	122.3	134.7
.800	101.2	102.3	103.2	104.2	105.4	106.4	109.5	114.8	119.8	123.6	122.4	136.3
1.00	103.1	102.7	103.6	104.6	106.4	108.7	111.3	115.9	119.9	123.5	123.5	137.2
1.25	102.3	104.0	104.7	105.7	107.0	108.7	112.0	115.8	118.7	122.8	122.6	137.5
1.60	102.6	104.0	104.9	105.7	107.1	109.0	112.5	115.9	118.0	122.7	122.5	137.9
2.00	103.0	103.6	104.7	106.1	107.3	109.6	113.5	115.9	117.8	122.3	121.5	137.3
2.50	102.7	103.8	104.7	106.4	107.9	110.2	114.3	116.4	118.4	122.6	121.5	137.2
3.15	102.6	103.3	104.8	106.4	108.2	110.8	115.0	116.4	119.5	122.5	119.0	136.9
4.00	101.7	102.7	104.4	106.3	108.4	111.3	115.2	116.8	120.2	120.9	116.5	137.3
5.00	101.4	102.3	104.0	105.8	108.2	111.1	114.7	116.9	120.4	118.5	114.1	137.4
6.30	101.8	102.3	104.0	106.1	108.4	111.3	115.0	117.1	119.6	116.8	112.3	137.1
8.00	101.7	102.2	103.7	105.5	108.0	111.0	114.3	116.3	117.5	115.4	110.7	136.5
10.0	100.3	102.6	103.3	105.4	107.6	110.4	113.6	115.3	116.5	114.3	109.6	136.0
12.5	99.3	101.4	103.5	105.0	107.2	110.1	112.6	114.4	115.4	113.2	108.7	134.8
16.0	98.7	100.7	103.0	105.0	107.3	109.9	112.3	113.7	114.4	112.4	108.1	134.0
20.0	97.6	100.0	102.0	104.0	106.5	108.8	111.4	112.4	113.5	111.6	107.2	133.1
25.0	97.5	99.7	101.8	104.4	106.4	109.2	111.0	112.2	113.2	111.2	107.6	132.5
31.5	97.2	100.0	102.3	104.4	106.6	109.0	111.2	112.2	113.5	111.3	107.4	131.5
40.0	97.5	100.3	102.6	105.0	106.7	109.7	111.2	113.0	113.8	112.2	108.2	131.4
50.0	97.6	100.4	102.8	105.0	107.0	109.9	112.0	113.3	114.1	112.7	108.6	131.5
63.0	97.3	100.1	102.8	105.0	107.4	109.8	112.3	113.9	114.6	113.1	108.8	131.9
80.0	98.0	100.3	103.5	105.3	107.7	110.4	113.5	115.1	116.8	114.5	110.1	132.4
100.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	132.7
												134.0
												0.0
OSPL	114.7	115.8	117.3	119.0	120.9	123.4	126.5	128.8	131.6	133.9	133.1	OAPWL = 149.5

STAND X206 RIG ID 705308 TEST DATE 03/10/77 SCALE RATIO 12.0/1 RUN NUMBER 2008 CONDITION 8406

				PRIMARY	FAN		PRIMARY	FAN			PRIMARY	FAN		PRIMARY	FAN
TEMP	77.0(F)	25.0(C)	AREA SQFT	8.640	11.520	SQM	0.803	1.070	MASS FLOW	LB/S	267.8	750.2	KG/S	121.5	340.3
PRES	30.11IN	1.02BAR	P.R.	1.53	2.48		1.53	2.43	THRUST,IDL	LB	11622.6	54572.9	KN	51.700	242.751
WIND D			TEMP (R)	1422.7	1958.7	(K)	790.4	1088.2	THRUST,MEA	LB		0.0	KN	0.0	
WIND V	0MPH	0.0M/S	RHO LB/FT3	0.031	0.025	KG/M3	0.502	0.407	AREA (MOD)	SQFT	0.060	0.090	SQM	0.006	0.007
REL H	70.0%		VEL FPS	1397.3	2342.2	M/S	425.9	713.9	W (MODEL)	LB/S	1.9	5.2	KG/S	0.8	2.4

FAA DAY

1/3 OCTAVE BAND ENGINE JET NOISE DATA 150.0FT RADIUS (SCALED ENGINE)

BAND CENTER FREQ (KHZ)	MICROPHONE ANGLES IN DEGREES 60	70	80	90	100	110	120	130	140	150	160	POWER 1E-12W
.050	102.7	102.4	103.3	104.8	105.5	107.1	110.6	116.0	121.3	124.8	123.9	
.063	102.8	103.9	104.8	105.8	107.0	108.0	111.1	116.4	121.4	125.2	124.0	160.3
.080	104.7	104.3	105.2	106.2	108.0	110.3	112.9	117.5	121.5	125.1	125.1	160.6
.100	103.9	105.6	106.3	107.3	108.6	110.3	113.6	117.4	120.3	124.4	124.2	161.0
.125	104.2	105.6	106.5	107.3	108.7	110.6	114.1	117.5	119.6	124.3	124.1	160.4
.160	104.5	105.1	106.2	107.6	108.8	111.1	115.0	117.4	119.3	123.8	123.0	160.3
.200	104.2	105.3	106.2	107.9	109.4	111.7	115.8	117.9	119.9	124.1	123.0	160.0
.250	104.1	104.8	106.3	107.9	109.7	112.3	116.5	117.9	121.0	124.0	120.5	160.4
.315	103.2	104.2	105.9	107.8	109.9	112.8	116.7	118.3	121.7	122.4	118.0	160.5
.400	102.9	103.8	105.5	107.3	109.7	112.6	116.2	118.4	121.9	120.0	115.6	160.2
.500	103.2	103.7	105.4	107.5	109.8	112.7	116.4	118.5	121.0	118.2	113.7	159.5
.630	103.1	103.6	105.1	106.9	109.4	112.4	115.7	117.7	118.9	116.8	112.1	159.0
.800	101.7	104.0	105.2	106.8	109.0	111.8	115.0	116.7	117.9	115.7	111.0	157.8
1.00	100.6	102.7	104.8	106.3	108.5	111.4	113.9	115.7	116.7	114.5	110.0	156.9
1.25	99.9	101.9	104.2	106.2	108.5	111.1	113.5	114.9	115.6	113.6	109.3	156.0
1.60	98.7	101.1	103.1	105.1	107.6	109.9	112.5	113.5	114.6	112.7	108.3	155.3
2.00	98.6	100.8	102.9	105.5	107.5	110.3	112.1	113.3	114.3	112.3	108.7	154.2
2.50	98.1	100.9	103.2	105.3	107.5	109.9	112.1	113.1	114.4	112.2	108.3	154.0
3.15	98.2	101.0	103.3	105.7	107.4	110.4	111.9	113.7	114.5	112.9	108.9	153.9
4.00	98.1	100.9	103.3	105.5	107.5	110.4	112.5	113.8	114.6	113.2	109.1	154.2
5.00	97.6	100.4	103.1	105.3	107.7	110.1	112.6	114.2	114.9	113.4	109.1	154.4
6.30	98.0	100.3	103.5	105.3	107.7	110.4	113.5	115.1	116.8	114.5	110.1	154.6
8.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	155.5
10.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
												0.0

OAPWL = 171.9

OSPL	115.6	116.8	118.3	120.0	121.9	124.4	127.6	129.9	132.5	134.6	133.2	
PNL	124.7	126.8	128.8	130.8	132.8	135.5	138.1	139.8	141.4	140.9	137.6	

200. SIDELINE

PNL	120.6	123.5	125.9	128.1	129.9	132.2	133.9	134.5	134.3	131.4	124.9	

370. SIDELINE

PNL	114.6	117.4	119.9	122.1	123.8	126.1	127.7	128.3	128.0	125.3	118.7	

800. SIDELINE

PNL	106.0	109.0	111.5	113.7	115.4	117.5	119.1	119.5	119.6	117.1	110.3	

2128. SIDELINE

PNL	94.0	96.4	98.7	100.7	102.6	104.6	106.8	107.4	107.7	105.5	98.6	

STAND X206 RIG ID 705308 TEST DATE 03/10/77 SCALE RATIO 12.0/1 RUN NUMBER 20084 CONDITION 8407

					PRIMARY	FAN		PRIMARY	FAN			PRIMARY	FAN		PRIMARY	FAN
TEMP	86°F	30°C	AREA	SQFT	0.0	0.0	SQM	0.0	0.0	MASS FLOW	LB/S	0.0	0.0	KG/S	0.0	0.0
PRES	30.11IN	1.028AR	P.R.		1.51	4.06		1.51	4.06	THRUST,IDL	LB	76.2	446.3	KN	0.339	1.985
WIND D			TEMP	(R)	1440.7	1960.7	(K)	800.4	1089.3	THRUST,MEA	LB		0.0	KN	0.0	
WIND V	0MPH	0.0M/S	RHO	LB/FT3	0.031	0.029	KG/M3	0.494	0.458	AREA (MOD)	SQFT	0.060	0.080	SQM	0.006	0.007
REL H	17 %		VEL	FPS	1393.3	2828.7	M/S	424.7	862.2	W (MODEL)	LB/S	1.8	5.1	KG/S	0.8	2.3

1/3 OCTAVE BAND MODEL JET NOISE DATA 15.0FT RADIUS THEORETICAL DAY SPL - (MODEL)

BAND CENTER FREQ (KHZ)	MICROPHONE ANGLES IN DEGREES 60	70	80	90	100	110	120	130	140	150	160	POWER 1E-12W
.050	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
.063	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
.080	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
.100	93.9	97.6	100.3	99.2	98.7	100.0	101.6	103.5	105.2	110.2	114.9	126.5
.125	95.5	99.4	100.0	100.8	102.2	101.1	100.8	104.0	107.6	111.4	115.7	127.7
.160	101.5	103.4	101.2	102.3	101.2	100.8	101.8	102.9	108.3	113.2	117.8	129.1
.200	99.7	98.4	99.4	101.1	102.0	102.8	104.8	106.9	112.8	118.0	120.9	132.5
.250	101.3	100.6	101.3	102.8	103.9	104.9	106.7	109.6	114.9	120.3	123.2	134.7
.315	100.5	100.7	103.1	104.9	106.3	107.0	109.1	113.4	116.9	122.9	126.6	137.5
.400	105.4	104.8	104.9	105.8	107.9	109.5	112.1	116.1	121.5	126.0	129.3	140.6
.500	105.1	104.9	105.4	106.1	107.4	109.3	112.1	117.3	124.8	129.0	128.0	142.4
.630	106.0	106.0	107.3	108.2	108.9	110.4	114.1	120.3	126.3	129.8	128.3	143.5
.800	107.0	107.0	108.5	109.2	110.6	111.2	114.8	121.2	127.2	130.6	128.4	144.3
1.00	107.4	107.7	108.5	109.3	111.4	113.2	116.7	122.6	128.2	130.8	129.0	144.9
1.25	107.1	108.1	108.9	109.8	112.0	113.7	117.5	122.6	128.3	130.8	127.2	144.9
1.60	106.6	107.8	108.6	110.0	111.7	113.8	118.1	123.0	128.7	131.1	126.2	145.1
2.00	107.0	107.4	108.6	110.1	111.9	114.5	119.4	123.4	129.3	129.5	123.4	144.7
2.50	109.5	108.5	109.3	110.6	112.6	115.2	120.4	124.5	129.9	127.6	121.6	144.6
3.15	110.6	111.2	110.6	111.2	113.2	115.8	121.2	124.9	129.4	125.5	119.5	144.2
4.00	109.8	111.2	112.5	112.3	113.5	116.4	121.4	125.3	127.3	123.6	117.6	143.3
5.00	109.0	110.5	112.0	113.1	114.0	116.4	121.1	124.7	125.3	121.8	115.5	142.2
6.30	109.9	110.2	111.6	113.3	114.7	116.7	121.1	124.1	124.6	120.3	113.8	141.7
8.00	110.5	110.7	111.6	112.7	114.6	116.7	120.5	122.9	123.2	119.0	112.1	140.8
10.0	110.7	112.2	112.3	113.0	114.6	116.5	119.8	121.9	122.2	117.7	111.0	140.1
12.5	109.7	112.1	113.1	113.3	114.6	116.3	119.0	120.7	121.1	116.6	110.1	139.4
16.0	109.1	111.3	113.3	114.0	115.1	116.4	119.6	120.2	120.6	115.9	109.9	139.1
20.0	108.4	110.8	112.4	113.6	114.8	115.5	117.8	119.2	119.4	115.3	109.0	138.3
25.0	108.4	110.8	112.4	113.8	115.0	116.2	117.6	119.1	119.2	114.9	109.6	138.4
31.5	109.4	111.0	113.0	114.2	115.2	116.0	117.8	119.0	119.0	114.8	109.4	138.3
40.0	108.9	111.6	113.6	114.9	115.7	116.9	118.0	119.7	119.4	115.6	110.4	138.9
50.0	109.3	111.8	113.8	115.0	116.0	117.2	119.0	119.8	119.8	115.9	111.0	139.3
63.0	109.3	112.0	114.1	115.4	116.9	117.7	119.2	120.5	119.8	116.1	111.1	139.7
80.0	110.0	112.5	115.2	116.2	117.8	118.6	120.6	121.4	121.5	117.6	112.2	140.9
100.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
OSPL	122.7	124.1	125.5	126.6	127.9	129.5	132.7	135.9	139.4	140.1	137.9	OAPWL = 156.2

STAND X206 RIG ID 705308 TEST DATE 03/10/77 SCALE RATIO 12.0/1 RUN NUMBER 2009 CONDITION 9407

					PRIMARY	FAN		PRIMARY	FAN				PRIMARY	FAN		PRIMARY	FAN
TEMP	77.0(F)	25.0(C)	AREA	SQFT	8.640	11.520	SQM	0.803	1.070	MASS FLOW	LB/S	253.4	731.5	KG/S	115.0	331.8
PRES	30.11IN	1.02BAR	P.R.		1.51	4.06		1.51	4.06	THRUST,IDL	LB	10966.8	64262.4	KN	48.782	285.852
WIND D			TEMP	(R)	1440.7	1960.7	(K)	800.4	1089.3	THRUST,MEA	LB		0.0	KN	0.0	
WIND V	0MPH	0.0M/S	RHO	LB/FT3	0.031	0.029	KG/M3	0.494	0.468	AREA (MOD)	SQFT	0.060	0.090	SQM	0.006	0.007
REL H	70.0%		VEL	FPS	1393.3	2828.7	M/S	424.7	862.2	W (MODEL)	LB/S	1.8	5.1	KG/S	0.8	2.3

FAA DAY

1/3 OCTAVE BAND ENGINE JET NOISE DATA 150.0FT RADIUS (SCALED ENGINE)

BAND CENTER FREQ (KHZ) — MICROPHONE ANGLES IN DEGREES

	60	70	80	90	100	110	120	130	140	150	160	POWER 1E-12W
.050	107.6	107.6	108.9	109.8	110.5	112.0	115.7	121.9	127.9	131.4	129.9	
.063	108.6	108.6	110.1	110.8	112.2	112.8	116.4	122.8	128.8	132.2	130.0	166.7
.080	109.0	109.3	110.1	110.9	113.0	114.8	118.3	124.2	129.8	132.4	130.6	167.4
.100	108.7	109.7	110.5	111.4	113.6	115.3	119.1	124.2	129.9	132.4	128.8	168.1
.125	108.2	109.4	110.2	111.6	113.3	115.4	119.7	124.6	130.3	132.7	127.9	168.0
.160	108.5	108.9	110.1	111.6	113.4	116.0	120.9	124.9	130.8	131.0	124.9	168.3
.200	111.0	110.0	110.6	112.1	114.1	116.7	121.9	126.0	131.4	129.1	123.1	167.8
.250	112.1	112.7	112.1	112.7	114.7	117.3	122.7	126.4	130.9	127.0	121.0	167.7
.315	111.3	112.7	114.0	113.8	115.0	117.9	122.9	126.8	128.8	125.1	119.1	167.3
.400	110.5	112.0	113.5	114.6	115.5	117.9	122.6	126.2	126.8	123.3	117.0	166.4
.500	111.3	111.6	113.0	114.7	116.1	118.1	122.5	125.5	126.0	121.7	115.2	165.3
.630	111.9	112.1	113.0	114.1	116.0	118.1	121.9	124.3	124.6	120.4	113.5	164.7
.800	112.1	113.6	113.7	114.4	116.0	117.9	121.2	123.3	123.6	119.1	112.4	163.8
1.00	111.0	113.4	114.4	114.6	115.9	117.6	120.3	122.0	122.4	117.9	111.4	163.1
1.25	110.3	112.5	114.5	115.2	116.3	117.6	119.8	121.4	121.8	117.1	111.1	162.3
1.60	109.5	111.9	113.5	114.7	115.9	116.6	118.9	120.3	120.5	116.4	110.1	162.0
2.00	109.5	111.9	113.5	114.9	116.1	117.3	118.7	120.2	120.3	116.0	110.7	161.0
2.50	109.3	111.9	113.9	115.1	116.1	116.9	118.7	119.9	119.9	115.7	110.3	161.0
3.15	109.6	112.3	114.3	115.6	116.4	117.6	118.7	120.4	120.1	116.3	111.1	160.8
4.00	109.9	112.3	114.3	115.5	116.5	117.7	119.5	120.3	120.3	116.4	111.5	161.2
5.00	109.6	112.3	114.4	115.7	117.2	118.0	119.5	120.8	120.1	116.4	111.4	161.3
6.30	110.0	112.5	115.2	116.2	117.8	118.6	120.6	121.4	121.5	117.6	112.2	161.6
8.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	162.4
10.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
												0.0

OAPWL = 178.7

OSPL	123.6	125.0	126.4	127.4	128.8	130.4	133.9	137.1	140.6	140.9	137.4
PNL	134.7	136.7	138.4	139.6	140.7	142.1	144.6	146.6	147.8	145.0	139.9

200. SIDELINE

PNL	130.6	133.4	135.6	136.8	137.9	138.8	140.5	141.4	140.8	135.9	127.2

370. SIDELINE

PNL	124.4	127.3	129.5	130.7	131.7	132.7	134.3	135.2	134.7	129.9	121.0

800. SIDELINE

PNL	115.7	118.7	120.9	122.2	123.2	124.0	125.5	126.4	126.7	121.9	112.7

2128. SIDELINE

PNL	102.5	105.3	107.5	108.8	109.9	110.7	113.1	114.7	115.3	110.7	101.4

20084F TAPE P7333 NASA VSCE (NAS3-20061) CONFIG. C

STAND X206 RIG ID 070530 TEST DATE 03/07/77 SCALE RATIO 12.0/1 RUN NUMBER 20084 CONDITION 8408

				PRIMARY	FAN		PRIMARY	FAN			PRIMARY	FAN		PRIMARY	FAN
TEMP	84°F	28.9°C	AREA	SQFT 0.0	0.0	SQM	0.0	0.0	MASS FLOW	LB/S	0.0	0.0	KG/S	0.0	0.0
PRES	29.92IN	1.01BAR	P.R.	2.00	1.29		2.00	1.29	THRUST,IDL	LB	172.6	84.4	KN	0.769	0.375
WIND D			TEMP	(R) 1449.7	1256.7	(K)	805.4	698.2	THRUST,MEA	LB		0.0	KN	0.0	
WIND V	OMPH	0.0M/S	RHO	LB/FT3 0.033	0.034	KG/M3	0.527	0.545	AREA (MOD)	SQFT	0.060	0.080	SQM	0.006	0.007
REL H	21 %		VEL	FPS 1775.2	1029.1	M/S	541.1	313.7	W (MODEL)	LB/S	3.1	2.6	KG/S	1.4	1.2

1/3 OCTAVE BAND MODEL JET NOISE DATA 15.0FT RADIUS

THEORETICAL DAY SPL - (MODEL)

BAND CENTER FREQ (KHZ)	MICROPHONE ANGLES IN DEGREES 60	70	80	90	100	110	120	130	140	150	160	POWER 1E-12W
.050	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
.063	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
.080	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
.100	81.2	84.5	88.3	87.3	86.9	87.6	90.0	92.0	93.9	98.1	101.8	0.0
.125	81.6	85.5	86.3	87.6	89.3	89.3	88.6	92.4	96.3	99.6	102.2	0.0
.160	87.8	90.0	87.8	87.9	87.2	87.9	89.2	91.0	96.8	101.6	104.7	0.0
.200	86.6	85.5	85.5	88.1	89.3	89.9	92.3	94.6	100.8	105.8	107.8	114.3
.250	87.2	86.3	87.5	89.8	91.1	92.4	94.0	96.9	102.8	107.9	110.3	115.3
.315	89.9	88.4	89.9	91.9	93.3	94.2	96.5	100.6	105.1	110.7	114.0	116.7
.400	92.9	92.7	92.6	93.4	96.1	97.8	100.1	103.6	109.2	114.0	117.1	120.0
.500	95.3	93.3	94.3	96.0	96.6	98.1	100.6	104.6	111.0	116.7	116.4	122.1
.630	96.1	95.1	95.7	97.4	98.4	99.8	102.7	107.8	113.9	118.0	117.6	125.1
.800	95.4	96.9	97.4	98.4	99.7	100.4	102.8	108.7	115.2	119.3	117.4	128.5
1.00	97.1	96.4	97.2	98.3	100.5	102.8	105.1	110.5	117.3	119.9	119.0	130.0
1.25	96.2	97.5	97.7	99.1	101.1	102.7	105.6	110.7	117.3	119.1	116.3	131.7
1.60	95.8	97.2	97.5	98.8	100.6	102.5	105.4	110.6	117.1	118.7	115.4	132.8
2.00	95.7	95.9	97.0	98.5	100.2	102.3	105.7	110.3	116.3	117.3	113.2	133.9
2.50	94.7	95.3	96.3	98.1	100.0	102.3	105.8	110.1	114.9	115.8	111.4	133.5
3.15	93.1	94.2	95.5	97.3	99.4	101.9	105.7	109.1	112.6	113.0	106.1	133.2
4.00	92.1	93.4	94.9	96.9	99.1	101.6	105.2	108.3	110.3	109.6	100.5	132.1
5.00	91.3	92.3	94.0	96.0	98.2	100.7	104.0	106.5	107.3	104.1	95.2	130.9
6.30	90.5	91.8	93.2	95.4	97.5	99.9	103.3	105.0	104.9	99.9	90.5	128.9
8.00	88.9	90.7	92.3	94.3	96.4	99.0	102.0	102.9	101.6	96.0	87.2	126.9
10.0	87.7	89.6	91.3	93.5	95.6	97.9	100.6	100.9	99.2	93.1	85.3	124.6
12.5	86.5	88.3	90.1	92.3	94.3	96.7	98.8	98.5	96.5	91.2	84.2	122.9
16.0	85.3	87.4	89.2	91.3	93.5	95.4	97.4	97.0	94.7	89.9	83.2	121.0
20.0	83.8	85.9	87.7	89.8	91.8	93.6	95.3	95.0	92.8	88.6	81.8	119.4
25.0	82.9	84.8	87.0	89.4	91.0	93.1	94.1	93.6	91.6	88.1	83.6	117.6
31.5	82.4	84.5	87.0	88.9	90.8	92.2	93.6	92.9	91.3	88.3	82.6	116.3
40.0	82.5	84.8	87.2	89.1	90.5	92.6	93.0	93.0	91.5	89.5	84.1	114.4
50.0	82.1	84.4	86.8	89.0	90.3	92.2	93.0	92.6	91.7	90.5	85.8	113.5
63.0	81.6	84.1	86.2	88.5	90.2	91.7	92.6	92.4	92.1	92.4	87.8	113.0
80.0	82.0	84.1	86.9	88.5	90.6	91.7	93.0	93.1	94.7	95.3	90.7	113.0
100.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	112.9
												112.9
												113.9
												0.0
OSPL	106.5	107.1	108.0	109.6	111.4	113.4	116.3	120.2	125.6	128.0	126.4	OAPWL = 142.5

STAND X206 RIG ID 070530 TEST DATE 03/07/77 SCALE RATIO 12.0/1 RUN NUMBER 2008 CONDITION 8409

				PRIMARY	FAN		PRIMARY	FAN			PRIMARY	FAN		PRIMARY	FAN
TEMP	77.0(F)	25.0(C)	AREA SQFT	8.640	11.520	SQM	0.803	1.070	MASS FLOW	LB/S	450.7	380.2	KG/S	204.4	172.4
PRES	29.92IN	1.01BAR	P.R.	2.00	1.29		2.00	1.29	THRUST,IDL	LB	24848.7	12150.3	KN	110.532	54.047
WIND D			TEMP (R)	1449.7	1256.7	(K)	805.4	698.2	THRUST,MEA	LB		0.0	KN	0.0	
WIND V	0MPH	0.0M/S	RHO LB/FT3	0.033	0.034	KG/M3	0.527	0.545	AREA (MOD)	SQFT	0.060	0.080	SQM	0.006	0.007
REL H	70.0%		VEL FPS	1775.2	1029.1	M/S	541.1	313.7	W (MODEL)	LB/S	3.1	2.6	KG/S	1.4	1.2

FAA DAY 1/3 OCTAVE BAND ENGINE JET NOISE DATA 150.0FT RADIUS (SCALED ENGINE)

BAND CENTER FREQ (XHZ)	MICROPHONE ANGLES IN DEGREES 60	70	80	90	100	110	120	130	140	150	160	POWER 1E-12W
.050	97.7	96.7	97.3	99.0	100.0	101.4	104.3	109.4	115.5	119.6	119.2	154.9
.063	97.0	98.5	99.0	100.0	101.3	102.0	104.4	110.3	116.8	120.9	119.0	155.9
.080	98.7	98.0	98.8	99.9	102.1	104.4	106.7	112.1	118.9	121.5	119.6	157.1
.100	97.8	99.1	99.3	100.7	102.7	104.3	107.2	112.3	118.9	120.7	117.9	156.6
.125	97.4	98.8	99.1	100.4	102.2	104.1	107.0	112.2	118.7	120.3	117.0	156.3
.160	97.2	97.4	98.5	100.0	101.7	103.8	107.2	111.8	117.8	118.8	114.7	155.2
.200	96.2	96.8	97.8	99.6	101.5	103.8	107.3	111.6	116.4	117.3	112.9	154.0
.250	94.6	95.7	97.0	98.8	100.9	103.4	107.2	110.6	114.1	114.5	107.6	152.0
.315	93.6	94.9	96.4	98.4	100.6	103.1	106.7	109.8	111.8	110.1	102.0	149.9
.400	92.8	93.8	95.5	97.5	99.7	102.2	105.5	108.0	108.8	105.6	96.7	147.7
.500	91.9	93.2	94.6	96.8	98.9	101.3	104.7	106.4	106.3	101.3	91.9	146.0
.630	90.3	92.1	93.7	95.7	97.8	100.4	103.4	104.3	103.0	97.4	88.6	144.0
.800	89.1	91.0	92.7	94.9	97.0	99.3	102.0	102.3	100.6	94.5	86.7	142.4
1.00	87.8	89.6	91.4	93.6	95.6	98.0	100.1	99.8	97.8	92.5	85.5	140.5
1.25	86.5	88.6	90.4	92.5	94.7	96.6	98.6	98.2	95.9	91.1	84.4	139.1
1.60	84.9	87.0	88.8	90.9	92.9	94.7	96.4	96.1	93.9	89.7	82.9	137.2
2.00	84.0	85.9	88.1	90.5	92.1	94.2	95.2	94.7	92.7	89.2	84.7	136.2
2.50	83.3	85.4	87.9	89.8	91.7	93.1	94.5	93.8	92.2	89.2	83.5	135.5
3.15	83.2	85.5	87.9	89.8	91.2	93.3	93.7	93.7	92.2	90.2	84.8	135.3
4.00	82.6	84.9	87.3	89.5	90.8	92.7	93.5	93.1	92.2	91.0	86.3	135.0
5.00	81.9	84.4	86.5	88.8	90.5	92.0	92.9	92.7	92.4	92.7	88.1	134.8
6.30	82.0	84.1	86.9	88.5	90.6	91.7	93.0	93.1	94.7	95.3	90.7	135.4
8.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

OAPWL = 164.9

OSPL	107.2	107.9	109.9	110.5	112.4	114.4	117.4	121.4	126.8	128.8	126.3
PNL	113.2	113.9	115.7	117.6	119.3	121.4	123.5	125.8	128.7	128.7	124.5

200. SIDELINE

PNL	108.2	110.6	112.9	114.9	116.5	118.1	119.6	120.8	122.1	119.8	112.2

370. SIDELINE

PNL	102.4	104.7	106.9	109.0	110.6	112.1	113.9	115.1	116.4	114.1	106.4

800. SIDELINE

PNL	94.7	96.7	98.7	100.8	102.7	104.3	106.2	107.5	108.9	106.6	98.7

2128. SIDELINE

PNL	93.5	85.7	87.7	89.8	91.6	93.3	95.3	96.9	98.6	96.4	88.3

STAND X206 RIG ID 070530 TEST DATE 03/07/77 SCALE RATIO 12.0/1 RUN NUMBER 20084 CONDITION 8409

				PRIMARY	FAN		PRIMARY	FAN			PRIMARY	FAN		PRIMARY	FAN
TEMP	84°F	28.9°C	AREA	SQFT 0.0	0.0	SQM	0.0	0.0	MASS FLOW	LB/S	0.0	0.0	KG/S	0.0	0.0
PRES	29.92IN	1.01BAR	P.R.	1.99	1.80		1.99	1.80	THRUST,IDL	LB	169.1	210.1	KN	0.752	0.934
WIND D			TEMP	(R) 1444.7	1256.7	(K)	802.6	698.2	THRUST,MEA	LB		0.0	KN	0.0	
WIND V		0MPH 0.0M/S	RHO	LB/FT3 0.033	0.037	KG/M3	0.528	0.594	AREA (MOD)	SQFT	0.060	0.080	SQM	0.006	0.007
REL H	21 %		VEL	FPS 1767.6	1530.4	M/S	538.8	466.5	W (MODEL)	LB/S	3.1	4.4	KG/S	1.4	2.0

1/3 OCTAVE BAND MODEL JET NOISE DATA 15.0FT RADIUS THEORETICAL DAY SPL - (MODEL)

BAND CENTER FREQ (KHZ)	MICROPHONE ANGLES IN DEGREES 60	70	80	90	100	110	120	130	140	150	160	POWER 1E-12W
.050	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
.063	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
.080	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
.100	88.1	88.2	92.4	90.9	90.5	91.5	93.1	95.2	97.1	101.5	105.4	0.0
.125	88.9	89.5	90.3	91.4	93.2	93.1	91.9	95.6	99.4	103.0	105.8	117.8
.160	91.5	93.6	91.7	92.1	91.1	91.6	92.3	94.2	100.0	105.0	108.5	118.8
.200	90.2	89.5	90.5	92.3	93.3	94.2	95.7	98.2	104.5	109.4	111.6	120.2
.250	90.7	89.9	91.5	93.6	94.6	95.7	97.1	100.4	106.2	111.5	113.8	123.7
.315	93.1	92.0	93.4	95.4	96.8	97.9	99.6	103.9	108.5	114.1	117.5	125.7
.400	95.9	95.9	96.0	96.9	99.4	101.2	102.9	107.1	112.8	117.5	120.3	128.6
.500	97.9	96.5	97.3	98.8	99.3	101.3	103.6	108.2	115.4	120.0	119.3	131.9
.630	99.0	98.2	98.8	100.8	101.6	102.9	105.6	111.4	117.4	121.3	120.1	133.4
.800	98.2	99.2	99.8	101.5	102.8	103.8	106.0	112.2	118.6	122.3	119.8	135.0
1.00	99.8	99.6	100.0	101.8	103.8	106.0	108.0	113.7	120.3	122.7	120.7	135.8
1.25	99.7	100.5	101.2	102.9	104.2	105.9	108.3	113.7	120.0	122.1	119.5	136.8
1.60	98.7	100.1	100.6	102.2	103.8	105.8	108.2	113.4	119.0	121.4	118.6	136.4
2.00	98.4	98.9	99.8	101.6	103.2	105.4	108.4	112.5	117.5	119.0	116.1	135.7
2.50	97.5	98.3	99.6	101.4	103.2	105.6	108.4	112.4	115.8	116.9	114.5	133.9
3.15	96.8	97.7	99.0	100.8	102.8	105.3	108.3	111.4	113.7	114.1	110.8	132.5
4.00	95.8	97.1	98.3	100.4	102.6	104.9	107.8	110.4	111.5	110.6	107.9	130.8
5.00	95.3	96.1	97.5	99.7	101.8	104.0	106.7	108.8	108.9	107.8	104.7	129.1
6.30	94.6	95.5	96.9	99.0	101.2	103.5	105.9	107.3	106.7	105.3	101.9	127.3
8.00	93.0	94.7	96.1	98.2	100.2	102.6	104.7	105.4	104.6	103.0	99.2	125.8
10.0	91.8	93.7	95.1	97.6	99.4	101.7	103.5	103.8	102.9	100.9	97.3	124.4
12.5	90.8	92.4	94.2	96.4	98.3	100.7	102.0	101.8	100.9	99.1	96.2	123.0
16.0	89.8	91.5	93.5	95.6	97.5	99.5	101.0	100.7	99.4	97.6	95.6	121.5
20.0	88.4	90.3	92.0	94.3	96.1	97.8	99.1	99.1	97.8	96.4	94.6	120.4
25.0	87.5	89.2	91.2	94.1	95.5	97.7	98.1	98.1	97.0	95.8	95.0	118.9
31.5	87.1	89.0	91.3	93.5	95.3	97.0	97.9	97.6	96.8	95.6	94.2	118.3
40.0	87.3	89.3	91.6	94.1	95.3	97.4	97.5	98.1	97.2	96.4	94.8	117.8
50.0	87.0	89.2	91.4	93.9	95.2	97.4	98.0	97.7	97.3	96.6	95.1	118.1
63.0	86.8	89.0	91.0	93.5	95.5	97.1	97.7	97.7	97.5	97.2	95.2	118.2
80.0	87.6	89.2	91.9	93.8	95.9	97.3	98.3	98.5	99.8	99.4	96.9	118.1
100.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	119.1
												0.0
OSPL	109.8	110.4	111.3	113.2	114.8	116.8	119.1	123.1	128.1	130.8	129.4	OAPWL = 145.2

STAND X206 RIG ID 070530 TEST DATE 03/07/77 SCALE RATIO 12.0/1 RUN NUMBER 2009 CONDITION 8409

			PRIMARY	FAN		PRIMARY	FAN			PRIMARY	FAN		PRIMARY	FAN
TEMP 77.0(F) 25.0(C)	AREA	SQFT	8.640	11.520	SQM	0.803	1.070	MASS FLOW	LB/S	443.5	636.5	KG/S	201.2	288.7
PRES 29.92IN 1.01BAR	P.R.		1.99	1.80		1.99	1.80	THRUST,IDL	LB	24346.4	30251.1	KN	108.298	134.563
WIND D	TEMP	(R)	1444.7	1256.7	(K)	802.6	698.2	THRUST,MEA	LB		0.0	KN	0.0	
WIND V OMPH 0.0M/S	RHO	LB/FT3	0.033	0.037	KG/M3	0.528	0.594	AREA (MOD)	SQFT	0.060	0.090	SQM	0.006	0.007
REL H 70.0%	VEL	FPS	1767.6	1530.4	M/S	538.8	466.5	W (MODEL)	LB/S	3.1	4.4	KG/S	1.4	2.0

FAA DAY

1/3 OCTAVE BAND ENGINE JET NOISE DATA 150.0FT RADIUS (SCALED ENGINE)

BAND CENTER FREQ (KHZ)	MICROPHONE ANGLES IN DEGREES 60	70	80	90	100	110	120	130	140	150	160	POWER 1E-12W
.050	100.6	99.8	100.4	102.4	103.2	104.5	107.2	113.0	119.0	122.9	121.7	
.063	99.8	100.8	101.4	103.1	104.4	105.4	107.6	113.9	120.2	123.9	121.4	158.1
.080	101.4	101.2	101.6	103.4	105.4	107.6	109.6	115.3	121.9	124.3	122.3	159.0
.100	101.3	102.1	102.8	104.5	105.8	107.5	109.9	115.3	121.6	123.7	121.1	160.0
.125	100.3	101.7	102.2	103.8	105.4	107.4	109.9	115.0	120.6	123.0	120.2	159.5
.160	99.9	100.4	101.3	103.1	104.7	106.9	109.9	114.0	119.0	120.5	117.6	158.8
.200	99.0	99.8	101.1	102.9	104.7	107.1	109.9	113.9	117.3	118.4	116.0	157.0
.250	98.3	99.2	100.5	102.3	104.3	106.8	109.8	112.9	115.2	115.6	112.3	155.6
.315	97.3	98.6	99.8	101.9	104.1	106.4	109.3	111.9	113.0	112.1	109.3	153.9
.400	96.8	97.6	99.0	101.2	103.3	105.5	108.2	110.3	110.4	109.3	106.2	152.2
.500	96.0	96.9	98.3	100.4	102.6	104.9	107.3	108.7	108.1	106.7	103.3	150.4
.630	94.4	96.1	97.5	99.6	101.6	104.0	106.1	106.8	106.0	104.4	100.6	148.9
.800	93.2	95.1	96.5	99.0	100.8	103.1	104.9	105.2	104.3	102.3	98.7	147.4
1.00	92.1	93.7	95.5	97.7	99.6	102.0	103.3	103.1	102.2	100.4	97.5	146.0
1.25	91.0	92.7	94.7	96.8	98.7	100.7	102.2	101.9	100.6	98.8	96.8	144.4
1.60	89.5	91.4	93.1	95.4	97.2	98.9	100.2	100.2	98.9	97.5	95.7	143.3
2.00	88.6	90.3	92.3	95.2	96.6	98.8	99.2	99.2	98.1	96.9	96.1	141.6
2.50	88.0	89.9	92.2	94.4	96.2	97.9	98.8	98.5	97.7	96.5	95.1	140.9
3.15	88.0	90.0	92.3	94.8	96.0	98.1	98.2	98.8	97.9	97.1	95.5	140.3
4.00	87.5	89.7	91.9	94.4	95.7	97.9	98.5	98.2	97.8	97.1	95.6	140.4
5.00	87.1	89.3	91.3	93.8	95.8	97.4	98.0	98.0	97.8	97.5	95.5	140.2
6.30	87.6	89.2	91.9	93.8	95.9	97.3	98.3	98.5	99.8	99.4	96.9	140.0
8.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	140.6
10.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
												0.0

OASPWL = 167.6

OSPL	110.4	111.2	112.2	114.1	115.8	117.8	120.2	124.2	129.1	131.5	129.2
PNL	116.4	117.9	119.7	121.9	123.5	125.6	127.0	128.9	131.2	132.2	129.6

200. SIDELINE

PNL	112.4	114.7	116.9	119.3	120.7	122.3	122.9	123.8	124.6	123.3	117.2

370. SIDELINE

PNL	106.4	109.7	110.9	113.3	114.7	116.3	117.1	118.1	118.8	117.5	111.2

800. SIDELINE

PNL	98.5	100.5	102.7	105.1	106.5	108.1	109.4	110.5	111.3	109.9	103.3

2128. SIDELINE

PNL	87.3	89.4	91.4	93.7	95.4	97.0	98.3	99.8	100.8	99.5	92.5

STAND X206 RIG ID 070530 TEST DATE 03/07/77 SCALE RATIO 12.0/1 RUN NUMBER 20084 CONDITION 8410

					PRIMARY	FAN		PRIMARY	FAN			PRIMARY	FAN		PRIMARY	FAN
TEMP	84°F	28.9°C	AREA	SQFT	0.0	0.0	SQM	0.0	0.0	MASS FLOW	LB/S	0.0	0.0	KG/S	0.0	0.0
PRES	29.92IN	1.018AR	P.R.		2.01	2.48		2.01	2.48	THRUST,IDL	LB	165.4	366.9	KN	0.736	1.632
WIND D			TEMP	(R)	1446.7	1245.7	(K)	803.7	692.1	THRUST,MEA	LB		0.0	KN	0.0	
WIND V	0MPH	0.0M/S	RHO	LB/FT3	0.033	0.041	KG/M3	0.529	0.653	AREA (MOD)	SQFT	0.060	0.080	SQM	0.006	0.007
REL H	21 %		VEL	FPS	1781.4	1860.3	M/S	543.0	567.0	W (MODEL)	LB/S	3.0	6.4	KG/S	1.4	2.9

1/3 OCTAVE BAND MODEL JET NOISE DATA 15.0FT RADIUS THEORETICAL DAY SPL - (MODEL)

BAND CENTER FREQ (KHZ)	MICROPHONE ANGLES IN DEGREES 60	70	80	90	100	110	120	130	140	150	160	POWER 1E-12W
.050	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
.063	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
.080	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
.100	88.8	91.8	96.2	94.0	93.5	94.4	96.1	98.0	99.8	104.7	109.1	121.1
.125	90.0	93.3	94.7	94.7	96.1	96.0	95.2	98.3	101.9	106.0	109.4	121.9
.160	94.9	97.0	94.8	95.2	94.4	94.9	95.9	97.4	102.9	108.3	111.7	123.4
.200	93.9	93.2	94.3	95.7	96.7	97.6	99.4	101.4	107.1	112.6	114.7	126.8
.250	94.6	93.9	95.3	96.8	97.7	99.0	100.6	103.6	109.2	114.5	117.1	128.8
.315	95.9	95.0	96.4	98.6	100.2	101.1	103.0	107.1	111.4	117.1	120.7	131.7
.400	99.1	98.9	98.8	100.0	101.9	104.1	106.1	110.0	115.6	120.5	123.3	134.8
.500	100.4	100.0	100.6	101.7	102.2	104.2	106.7	111.2	118.5	123.2	122.3	136.5
.630	102.1	101.4	101.8	103.7	104.2	105.7	108.9	114.6	120.6	124.4	123.3	138.1
.800	101.5	102.2	102.7	104.4	105.7	106.7	109.3	115.4	121.7	125.4	123.0	138.9
1.00	102.9	103.1	103.4	104.9	106.7	109.1	111.3	116.5	123.1	126.0	124.3	140.0
1.25	103.8	103.9	104.8	106.0	107.6	109.2	111.7	116.4	122.9	125.9	123.7	139.8
1.60	102.9	104.4	104.9	106.0	107.5	109.5	111.8	116.3	122.7	126.3	123.8	139.9
2.00	103.6	103.6	104.4	106.0	107.3	109.1	112.2	115.8	120.9	125.0	122.4	138.6
2.50	102.5	103.1	103.9	105.8	107.1	109.3	112.3	115.8	119.8	123.9	121.8	137.8
3.15	102.2	102.5	103.4	105.1	106.8	109.2	112.5	115.1	118.7	122.6	119.5	136.8
4.00	101.4	102.1	103.0	104.8	106.7	109.1	112.4	114.7	117.8	120.9	117.2	135.7
5.00	101.5	101.4	102.4	104.2	106.1	108.6	111.6	113.5	116.6	119.0	114.9	134.3
6.30	101.6	101.6	102.4	104.0	105.7	108.3	111.3	112.9	115.8	117.2	112.9	133.3
8.00	100.8	101.3	102.0	103.6	105.3	107.7	110.5	111.7	114.4	115.4	111.0	132.1
10.0	100.4	101.4	101.6	103.3	104.7	107.3	109.7	110.6	113.0	114.2	109.8	131.1
12.5	99.9	100.7	101.5	102.6	104.0	106.6	108.9	109.3	111.3	112.8	108.5	129.9
16.0	99.0	100.5	101.6	102.4	103.6	106.0	108.3	108.6	110.0	112.0	108.0	129.2
20.0	97.3	99.2	100.5	101.7	102.9	104.6	106.9	107.1	108.5	110.9	107.0	127.9
25.0	96.4	98.1	99.8	101.9	102.6	104.9	106.3	106.3	107.9	110.3	107.2	127.5
31.5	96.1	98.2	99.8	101.6	102.8	104.6	106.2	106.3	107.8	110.2	106.8	127.3
40.0	95.2	98.4	100.3	102.0	102.9	105.4	105.9	107.0	108.3	111.1	107.6	127.8
50.0	96.1	98.2	100.3	102.0	102.9	105.5	106.6	106.9	108.5	111.5	108.1	128.1
63.0	95.9	98.1	100.1	102.0	103.4	105.2	106.7	107.2	108.6	112.0	108.4	128.3
80.0	96.7	98.5	101.0	102.5	104.3	105.7	107.5	108.2	110.7	113.8	110.3	129.6
100.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
OSPL	114.7	115.3	116.2	117.7	119.1	121.2	123.8	126.9	131.9	135.4	133.8	

OAPWL = 149.5

20084F TAPE P7333 NASA VSCE (NAS3-20061) CONFIG. C 15.2049

STAND X206 RIG ID 070530 TEST DATE 03/07/77 SCALE RATIO 12.0/1 RUN NUMBER 2009 CONDITION 8410

			PRIMARY	FAN		PRIMARY	FAN
TEMP 77.0(F) 25.0(C)	AREA	SQFT	8.640	11.520	SQM	0.803	1.070
PRES 29.92IN 1.01BAR	P.R.		2.01	2.48		2.01	2.48
WIND D	TEMP	(R)	1446.7	1245.7	(K)	803.7	692.1
WIND V OMPH 0.0M/S	RHO	LB/FT3	0.033	0.041	KG/M3	0.529	0.653
REL H 70.0%	VEL	FPS	1781.4	1860.3	M/S	543.0	567.0

		PRIMARY	FAN		PRIMARY	FAN
MASS FLOW	LB/S	430.6	914.4	KG/S	195.3	414.8
THRUST,IDL	LB	23819.3	52827.2	KN	105.953	234.986
THRUST,MEA	LB		0.0	KN	0.0	
AREA (MOD)	SQFT	0.060	0.090	SQM	0.006	0.007
W (MODEL)	LB/S	3.0	6.4	KG/S	1.4	2.9

FAA DAY

1/3 OCTAVE BAND ENGINE JET NOISE DATA 150.0FT RADIUS (SCALED ENGINE)

BAND CENTER FREQ (KHZ)	MICROPHONE ANGLES IN DEGREES 60	70	80	90	100	110	120	130	140	150	160	POWER 1E-12W
.050	103.7	103.0	103.4	105.3	105.8	107.3	110.5	116.2	122.2	126.0	124.9	
.063	103.1	103.9	104.3	106.0	107.3	109.3	110.9	117.0	123.3	127.0	124.6	161.3
.080	104.5	104.7	105.0	106.5	108.3	110.7	112.9	118.1	124.7	127.6	125.9	162.1
.100	105.4	105.5	106.4	107.6	109.2	110.8	113.3	118.0	124.5	127.5	125.3	163.1
.125	104.5	105.0	106.5	107.6	109.1	111.1	113.4	117.9	123.8	127.9	125.4	163.0
.160	105.1	105.1	105.9	107.5	108.8	110.6	113.7	117.3	122.4	126.5	123.9	163.0
.200	104.0	104.6	105.4	107.3	108.6	110.8	113.8	117.3	121.3	125.4	123.3	161.8
.250	103.7	104.0	104.9	106.6	108.3	110.7	114.0	116.6	120.2	124.1	121.9	161.0
.315	102.9	103.6	104.5	106.3	108.2	110.6	113.9	116.2	119.3	122.4	118.7	159.9
.400	103.0	102.9	103.9	105.7	107.6	110.1	113.1	115.0	118.1	120.5	116.4	158.7
.500	103.0	103.0	103.8	105.4	107.1	109.7	112.7	114.3	117.2	118.6	114.3	157.4
.630	102.2	102.7	103.4	105.0	106.7	109.1	111.9	113.1	115.8	116.8	112.4	156.3
.800	101.8	102.8	103.0	104.7	106.1	108.7	111.1	112.0	114.4	115.6	111.2	155.1
1.00	101.2	102.0	102.8	103.9	105.3	107.9	110.2	110.6	112.6	114.1	109.8	154.0
1.25	100.2	101.7	102.8	103.6	104.8	107.2	109.5	109.8	111.2	113.2	109.2	152.8
1.60	98.4	100.3	101.6	102.8	104.0	105.7	108.0	108.2	109.6	112.0	108.1	152.0
2.00	97.5	99.2	100.9	103.0	103.7	106.0	107.4	107.4	109.0	111.4	108.3	150.6
2.50	97.0	99.1	100.7	102.5	103.7	105.5	107.1	107.2	108.7	111.1	107.7	150.1
3.15	96.9	99.1	101.0	102.7	103.6	106.1	106.6	107.7	109.0	111.8	108.3	149.8
4.00	96.6	98.7	100.8	102.5	103.4	106.0	107.1	107.4	109.0	112.0	108.6	150.1
5.00	96.2	98.4	100.4	102.3	103.7	105.5	107.0	107.5	108.9	112.3	108.7	150.1
6.30	96.7	98.5	101.0	102.5	104.3	105.7	107.5	108.2	110.7	113.8	110.3	150.2
8.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	151.1
10.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
												0.0

OSPL 115.6 116.3 117.1 118.7 120.1 122.3 124.9 128.0 132.9 136.3 134.0 OAPWL = 172.1

PNL 124.0 125.5 126.9 129.5 129.8 132.0 133.8 135.3 137.9 140.8 137.9

200. SIDELINE

PNL 120.0 122.2 124.1 125.8 126.9 128.7 129.7 130.1 131.1 131.8 125.2

370. SIDELINE

PNL 113.9 116.2 118.0 119.8 120.9 122.7 123.6 123.9 125.1 125.8 119.0

800. SIDELINE

PNL 105.5 107.8 109.7 111.5 112.6 114.3 115.2 115.7 117.2 117.7 110.7

2128. SIDELINE

PNL 93.9 95.5 97.2 99.0 100.4 102.1 103.7 104.5 106.1 106.4 99.1

20084F TAPE P7333 NASA VSCE (NAS3-20061) CONFIG. C 15.2049

STAND X206 RIG ID 070530 TEST DATE 03/07/77 SCALE RATIO 12.0/1 RUN NUMBER 20084 CONDITION 8411

					PRIMARY	FAN		PRIMARY	FAN			PRIMARY	FAN		PRIMARY	FAN
TEMP	83°F	28.3°C	AREA	SQFT	0.0	0.0	SQM	0.0	0.0	MASS FLOW	LB/S	0.0	0.0	KG/S	0.0	0.0
PRES	29.92IN	1.01BAR	P.R.		2.02	3.19		2.02	3.19	THRUST,IDL	LB	157.5	528.3	KN	0.701	2.350
WIND D			TEMP	(R)	1459.7	1263.7	(K)	810.9	702.1	THRUST,MEA	LB		0.0	KN	0.0	
WIND V	OMPH	0.0M/S	RHO	LB/FT3	0.033	0.043	KG/M3	0.525	0.686	AREA (MOD)	SQFT	0.060	0.080	SQM	0.006	0.007
REL H	22 %		VEL	FPS	1792.6	2082.0	M/S	546.4	634.6	W (MODEL)	LB/S	2.8	8.2	KG/S	1.3	3.7

1/3 OCTAVE BAND MODEL JET NOISE DATA 15.0FT RADIUS THEORETICAL DAY SPL - (MODEL)

BAND CENTER FREQ (KHZ)	MICROPHONE ANGLES IN DEGREES 60	70	80	90	100	110	120	130	140	150	160	POWER 1E-12W
.050	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
.063	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
.080	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
.100	91.4	94.4	97.2	96.4	96.2	97.1	98.3	100.4	102.2	107.3	111.6	0.0
.125	93.2	96.4	96.9	97.3	98.8	98.2	97.6	100.9	104.3	108.5	111.9	0.0
.160	97.5	99.6	97.1	97.8	97.2	97.4	98.1	99.8	105.1	110.5	114.1	123.5
.200	97.0	96.2	97.0	98.4	99.4	100.1	101.8	103.8	109.4	114.7	117.6	124.4
.250	97.4	96.9	98.0	99.1	100.5	101.8	103.0	105.9	111.1	116.7	119.8	125.8
.315	98.4	97.1	98.7	100.9	102.6	103.6	105.3	109.4	113.4	119.6	123.4	129.2
.400	101.6	101.5	101.5	102.4	104.7	106.4	108.4	112.1	117.8	122.9	126.3	131.2
.500	102.8	102.3	102.9	103.7	104.5	106.3	109.0	113.4	120.8	125.8	125.0	134.1
.630	104.0	103.5	104.2	105.8	106.5	107.8	110.8	116.5	122.6	126.9	126.0	137.4
.800	103.8	104.3	105.1	106.6	108.1	108.9	111.1	117.3	123.8	127.8	125.8	139.1
1.00	104.9	105.4	105.7	106.9	108.9	111.1	113.1	118.4	124.8	128.4	127.1	140.4
1.25	106.3	106.1	107.2	108.1	109.8	111.4	113.8	118.4	124.9	128.7	126.6	141.3
1.60	104.8	106.6	107.0	108.0	109.6	111.5	113.8	118.3	124.4	129.3	126.3	142.1
2.00	105.5	105.6	106.5	107.9	109.2	111.3	114.2	118.0	124.1	128.7	124.7	142.3
2.50	106.1	105.3	106.0	107.5	109.3	111.4	114.5	118.2	123.8	127.4	123.3	142.5
3.15	107.1	106.9	106.6	107.4	109.0	111.5	114.9	117.9	123.6	125.9	120.4	141.8
4.00	107.3	107.8	107.7	108.3	109.2	111.6	114.8	117.9	123.3	123.7	118.4	141.0
5.00	106.6	107.2	107.8	108.2	109.3	111.4	114.5	117.1	122.2	121.8	116.0	140.2
6.30	106.5	107.0	107.3	108.3	109.5	111.7	114.5	116.9	121.4	120.4	114.1	139.3
8.00	106.2	107.0	107.2	108.0	109.2	111.3	114.0	116.3	119.6	118.9	112.4	138.1
10.0	105.7	107.4	107.4	108.0	108.9	111.3	113.7	115.5	118.6	117.6	111.2	137.4
12.5	104.6	106.7	107.5	108.0	108.6	111.0	113.1	114.2	117.1	116.2	110.0	136.3
16.0	104.2	106.2	107.5	108.3	108.7	110.8	112.9	113.8	116.4	115.5	109.6	135.6
20.0	102.7	105.2	106.6	107.5	108.2	109.5	111.5	112.5	115.2	114.4	108.7	134.6
25.0	101.8	104.4	106.0	107.7	108.1	110.0	111.0	112.0	114.6	114.0	108.7	134.2
31.5	101.6	104.2	106.3	107.6	108.5	109.8	111.2	111.9	114.8	114.1	108.5	133.0
40.0	102.2	104.7	106.7	108.4	108.8	110.8	111.1	112.6	115.3	114.9	109.4	132.7
50.0	102.2	104.7	106.9	108.6	109.4	111.1	112.3	113.0	116.0	115.3	110.1	132.7
63.0	102.4	104.8	106.7	108.7	110.0	111.3	112.4	113.5	116.5	116.0	110.2	133.3
80.0	103.5	105.5	108.0	109.6	111.0	112.4	113.9	115.3	119.1	117.9	112.3	133.9
100.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	134.3
												136.1
												0.0
OSPL	118.7	119.6	120.5	121.6	122.8	124.6	126.9	129.9	135.2	138.3	136.3	OAPWL = 152.6

STAND X206 RIG ID 070530 TEST DATE 03/07/77 SCALE RATIO 12.0/1 RUN NUMBER 2008 CONDITION 8411

				PRIMARY	FAN		PRIMARY	FAN			PRIMARY	FAN		PRIMARY	FAN
TEMP	77.0(F)	25.0(C)	AREA	SQFT 8.640	11.520	SQM	0.803	1.070	MASS FLOW	LB/S	407.5	1176.5	KG/S	184.9	533.7
PRES	29.92IN	1.01BAR	P.R.	2.02	3.19		2.02	3.19	THRUST,IDL	LB	22686.7	76069.7	KN	100.915	338.373
WIND D			TEMP	(R) 1459.7	1263.7	(K)	810.9	702.1	THRUST,MEA	LB		0.0	KN	0.0	
WIND V	0MPH	0.0M/S	RHO	LB/FT3 0.033	0.043	KG/M3	0.525	0.686	AREA (MOD)	SQFT	0.060	0.090	SQM	0.006	0.007
REL H	70.0%		VEL	FPS 1792.6	2082.0	M/S	546.4	634.6	W (MODEL)	LB/S	2.8	8.2	KG/S	1.3	3.7

FAA DAY

1/3 OCTAVE BAND ENGINE JET NOISE DATA 150.0FT RADIUS (SCALED ENGINE)

BAND CENTER FREQ (KHZ)	MICROPHONE ANGLES IN DEGREES 60	70	80	90	100	110	120	130	140	150	160	POWER 1E-12W
.050	105.6	105.1	105.8	107.4	108.1	109.4	112.4	118.1	124.2	128.5	127.6	
.063	105.4	105.9	106.7	108.2	109.7	110.5	112.7	119.9	125.4	129.4	127.4	163.6
.080	106.5	107.0	107.3	108.5	110.5	112.7	114.7	120.0	126.4	130.0	128.7	164.4
.100	107.9	107.7	108.8	109.7	111.4	113.0	115.4	120.0	126.5	130.3	128.2	165.3
.125	106.4	108.2	108.6	109.6	111.2	113.1	115.4	119.9	126.0	130.9	127.9	165.5
.160	107.0	107.1	108.0	109.4	110.7	112.8	115.7	119.5	125.6	130.2	126.2	165.6
.200	107.6	108.8	107.5	109.0	110.8	112.9	116.0	119.7	125.3	128.9	124.8	164.9
.250	108.6	108.4	108.1	108.9	110.5	113.0	116.4	119.4	125.1	127.4	121.9	164.1
.315	108.8	109.3	109.2	109.8	110.7	113.1	116.3	119.4	124.8	125.2	119.9	163.3
.400	108.1	108.7	109.3	109.7	110.8	112.9	116.0	118.6	123.7	123.3	117.5	162.4
.500	107.9	108.4	108.7	109.7	110.9	113.1	115.9	118.3	122.8	121.8	115.5	161.2
.630	107.6	108.4	108.6	109.4	110.6	112.7	115.4	117.7	121.0	120.2	113.8	160.4
.800	107.1	108.8	108.8	109.4	110.3	112.7	115.1	116.9	120.0	119.0	112.6	159.3
1.00	105.9	108.0	108.8	109.3	109.9	112.3	114.4	115.5	118.4	117.5	111.3	158.5
1.25	105.4	107.4	108.7	109.5	109.9	112.0	114.1	115.0	117.6	116.7	110.8	157.5
1.60	103.8	106.3	107.7	108.6	109.3	110.6	112.6	113.6	116.3	115.5	109.8	157.0
2.00	102.9	105.5	107.1	108.8	109.2	111.1	112.1	113.1	115.7	115.1	109.8	155.7
2.50	102.5	105.1	107.2	108.5	109.4	110.7	112.1	112.8	115.7	115.0	109.4	155.3
3.15	102.9	105.4	107.4	109.1	109.5	111.5	111.8	113.3	116.0	115.6	110.1	155.2
4.00	102.7	105.2	107.4	109.1	109.9	111.6	112.8	113.5	116.5	115.8	110.6	155.6
5.00	102.7	105.1	107.0	109.0	110.3	111.6	112.7	113.8	116.8	116.3	110.5	155.9
6.30	103.5	105.5	108.0	109.6	111.0	112.4	113.9	115.3	119.1	117.9	112.3	156.2
8.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	157.6
10.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
												0.0

OAPWL = 175.2

OSPL	119.7	120.6	121.5	122.6	123.7	125.6	128.0	131.1	136.4	139.3	136.4
PNL	129.3	131.1	132.5	133.9	134.8	136.6	138.3	140.0	144.0	144.3	139.6

200. SIDELINE

PNL	125.2	127.8	129.6	131.2	131.9	133.3	134.2	134.7	136.9	135.1	127.0

370. SIDELINE

PNL	119.1	121.7	123.6	125.1	125.8	127.2	128.0	128.6	130.5	129.1	120.9

800. SIDELINE

PNL	110.6	113.2	115.1	116.6	117.3	118.6	119.3	119.9	122.3	121.0	112.5

2128. SIDELINE

PNL	98.6	100.7	102.2	103.6	104.3	105.6	107.0	108.1	110.7	109.7	101.1

STAND X206 RIG ID 705308 TEST DATE 03/10/77 SCALE RATIO 12.0/1 RUN NUMBER 20084 CONDITION 8412

				PRIMARY	FAN		PRIMARY	FAN		PRIMARY	FAN		PRIMARY	FAN
TEMP	87°F	30.6°C	AREA SQFT	0.0	0.0	SQM	0.0	0.0	MASS FLOW LB/S	0.0	0.0	KG/S	0.0	0.0
PRES	30.11IN	1.0ZBAR	P.R.	1.99	1.79		1.99	1.79	THRUST,IDL LB	170.5	225.8	KN	0.759	1.004
WIND D			TEMP (R)	1464.7	1956.7	(K)	813.7	1087.1	THRUST,MEA LB		0.0	KN	0.0	
WIND V	0MPH	0.0M/S	RHO LB/FT3	0.033	0.024	KG/M3	0.521	0.377	AREA (MOD) SQFT	0.060	0.0N0	SQM	0.006	0.007
REL H	16 %		VEL FPS	1782.8	1913.2	M/S	543.4	583.2	W (MODEL) LB/S	3.1	3.8	KG/S	1.4	1.7

1/3 OCTAVE BAND MODEL JET NOISE DATA 15.0FT RADIUS THEORETICAL DAY SPL - (MODEL)

BAND CENTER FREQ (KHZ)	MICROPHONE ANGLES IN DEGREES 60	70	80	90	100	110	120	130	140	150	160	POWER 1E-12W
.050	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
.063	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
.080	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
.100	86.1	89.4	91.9	92.1	91.5	92.5	94.2	96.5	98.3	102.9	106.9	0.0
.125	86.5	90.7	91.3	92.9	94.7	94.0	93.6	97.3	101.2	104.3	107.7	119.0
.160	92.8	95.1	93.2	93.5	92.9	93.3	94.1	95.6	101.3	106.0	109.9	120.3
.200	92.0	90.6	91.1	92.9	94.0	94.8	96.9	99.5	105.6	110.7	113.2	121.5
.250	92.7	92.4	93.2	94.3	96.1	97.3	98.8	102.4	107.9	112.9	115.5	125.0
.315	94.7	93.6	95.3	96.7	98.1	98.7	101.2	105.7	109.7	115.2	118.6	127.3
.400	97.6	97.6	97.7	98.2	100.5	102.2	105.0	108.9	113.9	118.6	121.7	129.7
.500	99.3	97.6	98.3	100.0	100.6	102.3	105.0	109.7	116.7	121.3	120.5	133.1
.630	99.1	98.9	100.0	101.7	102.3	103.9	107.2	112.6	118.6	122.0	121.1	134.7
.800	99.5	100.5	101.7	102.5	103.8	104.7	107.7	113.5	119.6	122.9	121.0	135.9
1.00	100.8	100.7	101.9	103.0	104.9	107.0	109.5	114.8	121.0	123.4	122.0	136.7
1.25	100.4	102.1	102.9	104.0	105.6	107.3	110.3	114.6	120.9	123.4	121.1	137.7
1.60	100.3	101.7	102.6	103.9	105.2	107.2	110.3	114.2	120.3	123.4	120.9	137.6
2.00	100.5	101.1	102.3	103.8	105.2	107.4	110.6	113.9	118.9	122.1	119.1	137.4
2.50	100.2	101.1	102.4	104.0	105.5	107.6	110.8	113.9	117.7	121.0	118.6	136.1
3.15	99.7	100.6	102.0	103.4	105.5	107.6	110.9	113.1	116.2	118.9	115.8	135.4
4.00	98.4	99.9	101.5	103.2	105.3	107.7	110.8	112.4	114.7	116.6	113.6	133.9
5.00	97.5	98.8	100.5	102.5	104.7	107.1	109.7	111.0	113.0	114.3	111.0	132.6
6.30	97.1	98.1	100.2	102.2	104.4	106.6	109.6	110.1	111.7	112.4	108.9	131.1
8.00	95.5	97.2	99.3	101.3	103.3	106.0	108.4	108.8	110.1	110.4	106.8	130.0
10.0	94.4	96.4	98.4	100.7	102.8	105.1	107.5	107.4	108.6	108.7	105.2	129.7
12.5	93.7	95.5	97.6	99.8	102.1	104.4	106.3	105.9	106.8	107.3	104.2	127.3
16.0	92.9	94.9	97.2	99.3	101.8	103.9	105.5	105.0	105.4	106.4	103.7	126.2
20.0	91.8	94.1	96.4	98.5	100.8	102.5	104.4	103.3	104.2	105.5	102.8	125.4
25.0	91.3	93.5	95.9	98.3	100.4	102.5	103.4	102.7	103.5	104.9	102.9	124.3
31.5	91.2	93.5	96.0	98.1	100.3	101.9	103.1	102.2	103.1	104.5	102.4	123.8
40.0	91.3	93.6	96.3	98.5	100.0	102.1	102.5	102.5	103.0	104.9	103.0	123.3
50.0	91.4	93.6	96.0	98.2	99.8	101.9	103.0	102.3	102.9	104.8	103.0	123.4
63.0	91.0	93.3	95.9	98.0	99.9	101.3	102.6	102.1	102.4	104.6	102.3	123.4
80.0	91.0	93.3	96.4	98.1	99.9	101.2	102.9	102.1	103.6	105.5	103.0	123.1
100.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	123.5
												0.0
OSPL	111.6	112.5	113.9	115.5	117.2	119.2	121.8	124.7	129.5	132.6	131.3	OAPWL = 147.0

STAND X206 RIG ID 705308 TEST DATE 03/10/77 SCALE RATIO 12.0/1 RUN NUMBER 2008 CONDITION 8412

				PRIMARY	FAN		PRIMARY	FAN		PRIMARY	FAN		PRIMARY	FAN
TEMP	77.0(F)	25.0(C)	AREA SQFT	8.640	11.520	SQM	0.803	1.070	MASS FLOW LB/S	443.5	547.2	KG/S	201.2	248.2
PRES	30.11IN	1.02BAR	P.R.	1.99	1.79		1.99	1.79	THRUST,IDL LB	24555.8	32513.3	KN	109.229	144.626
WIND D			TEMP (R)	1464.7	1956.7	(K)	813.7	1087.1	THRUST,MEA LB		0.0	KN	0.0	
WIND V	0MPH	0.0M/S	RHO LB/FT3	0.033	0.024	KG/M3	0.521	0.377	AREA (MOD) SQFT	0.060	0.090	SQM	0.006	0.007
REL H	70.0%		VEL FPS	1782.8	1913.2	M/S	543.4	583.2	W (MODEL) LB/S	3.1	3.8	KG/S	1.4	1.7

FAA DAY

1/3 OCTAVE BAND ENGINE JET NOISE DATA 150.0FT RADIUS (SCALED ENGINE)

BAND CENTER FREQ (KHZ)	MICROPHONE ANGLES IN DEGREES 60	70	80	90	100	110	120	130	140	150	160	POWER 1E-12W
.050	100.7	100.5	101.6	103.3	103.9	105.5	108.8	114.2	120.2	123.6	122.7	
.063	101.1	102.1	103.3	104.1	105.4	106.3	109.3	115.1	121.2	124.5	122.6	159.1
.080	102.4	102.3	103.5	104.6	106.5	108.6	111.1	116.4	122.6	125.0	123.6	159.9
.100	102.0	103.7	104.5	105.6	107.2	108.9	111.9	116.2	122.5	125.0	122.7	160.8
.125	101.9	103.3	104.2	105.5	106.8	108.8	111.9	115.8	121.9	125.0	122.5	160.7
.160	102.0	102.6	103.8	105.3	106.7	108.9	112.1	115.4	120.4	123.6	120.6	160.5
.200	101.7	102.6	103.9	105.5	107.0	109.1	112.3	115.4	119.2	122.5	120.1	159.3
.250	101.2	102.1	103.5	104.9	107.0	109.1	112.4	114.6	117.7	120.4	117.3	158.5
.315	99.9	101.4	103.0	104.7	106.8	109.2	112.3	113.9	116.2	118.1	115.1	157.0
.400	99.0	100.3	102.0	104.0	106.2	108.6	111.2	112.5	114.5	115.8	112.5	155.7
.500	98.5	99.5	101.6	103.6	105.8	108.0	111.0	111.5	113.1	113.8	110.3	154.1
.630	96.9	98.6	100.7	102.7	104.7	107.4	109.8	110.2	111.5	111.8	108.2	153.0
.800	95.8	97.8	99.8	102.1	104.2	106.5	108.9	108.8	110.0	110.1	106.6	151.7
1.00	95.0	96.8	98.9	101.1	103.4	105.7	107.6	107.2	108.1	108.6	105.5	150.4
1.25	94.0	96.1	98.4	100.5	103.0	105.1	106.7	106.2	106.6	107.6	104.9	149.1
1.60	92.9	95.2	97.5	99.6	101.9	103.6	105.5	104.4	105.3	106.6	103.9	148.3
2.00	92.4	94.6	97.0	99.4	101.5	103.6	104.5	103.8	104.6	106.0	104.0	147.0
2.50	92.1	94.4	96.9	99.0	101.2	102.7	104.0	103.1	104.0	105.4	103.3	146.4
3.15	92.0	94.3	97.0	99.2	100.7	102.8	103.2	103.2	103.7	105.6	103.7	145.8
4.00	91.9	94.1	96.5	98.7	100.3	102.4	103.5	102.8	103.4	105.3	103.5	145.7
5.00	91.3	93.6	96.2	98.3	100.2	101.6	102.9	102.4	102.7	104.9	102.6	145.4
6.30	91.0	93.3	96.4	98.1	99.9	101.2	102.9	102.1	103.6	105.5	103.0	145.0
8.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	145.0
10.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
												0.0

OAPWL = 169.5

OSPL	112.2	113.3	114.8	116.4	118.2	120.3	123.0	125.8	130.6	133.4	131.2	
PNL	119.5	121.4	123.6	125.5	127.3	129.3	131.0	131.7	134.3	136.6	134.1	

200. SIDELINE

PNL	115.5	118.1	120.7	122.8	124.5	126.0	126.9	126.6	127.6	127.6	121.6	

370. SIDELINE

PNL	109.5	112.1	114.7	116.8	118.5	120.0	120.9	120.7	121.8	121.7	115.5	

800. SIDELINE

PNL	101.2	103.8	106.4	108.6	110.3	111.7	112.8	112.9	114.1	113.9	107.2	

2128. SIDELINE

PNL	90.0	92.3	94.6	96.7	98.5	100.1	101.6	101.9	103.3	102.9	95.8	

STAND X206 RIG ID 705308 TEST DATE 03/10/77 SCALE RATIO 12.0/1 RUN NUMBER 20084 CONDITION 8413

				PRIMARY	FAN		PRIMARY	FAN			PRIMARY	FAN		PRIMARY	FAN
TEMP	87°F	30.6°C	AREA SQFT	0.0	0.0	SQM	0.0	0.0	MASS FLOW	LB/S	0.0	0.0	KG/S	0.0	0.0
PRES	30.11IN	1.02BAR	P.R.	2.00	2.47		2.00	2.47	THRUST,IDL	LB	163.6	385.5	KN	0.728	1.715
WIND D			TEMP (R)	1446.7	1949.7	(K)	803.7	1083.2	THRUST,MEA	LB		0.0	KN	0.0	
WIND V	0MPH	0.0M/S	RHO LB/FT3	0.033	0.026	KG/M3	0.528	0.409	AREA (MOD)	SQFT	0.060	0.080	SQM	0.006	0.007
REL H	17 %		VEL FPS	1773.2	2333.4	M/S	540.5	711.2	W (MODEL)	LB/S	3.0	5.3	KG/S	1.3	2.4

1/3 OCTAVE BAND MODEL JET NOISE DATA 15.0FT RADIUS THEORETICAL DAY SPL - (MODEL)

BAND CENTER FREQ (KHZ)	MICROPHONE ANGLES IN DEGREES 60	70	80	90	100	110	120	130	140	150	160	POWER 1E-12W
.050	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
.063	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
.080	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
.100	89.6	92.8	95.3	95.0	94.6	95.6	97.5	99.2	101.2	106.0	110.2	122.1
.125	90.3	94.3	94.9	96.2	97.7	96.8	96.6	100.0	103.8	107.2	110.9	123.3
.160	96.5	98.7	96.6	96.9	96.5	96.5	97.3	98.3	104.3	109.4	113.5	124.9
.200	95.3	94.1	94.5	96.1	97.1	98.0	100.2	102.5	108.5	113.7	116.4	128.3
.250	96.4	95.8	96.5	98.0	99.6	100.4	102.2	105.3	111.0	116.5	119.1	130.7
.315	97.7	96.4	98.6	100.2	101.6	102.0	104.5	108.8	112.9	118.7	122.2	133.2
.400	101.1	100.8	100.6	101.3	103.5	105.2	108.1	112.2	117.4	122.1	125.2	136.6
.500	102.0	100.7	101.4	103.0	103.6	105.3	108.2	112.9	120.3	124.6	123.8	138.1
.630	102.2	102.1	103.1	104.6	105.2	106.7	110.3	115.6	121.8	125.4	124.0	139.1
.800	102.8	103.4	104.6	105.6	107.0	107.6	110.9	116.7	122.7	126.2	124.4	139.9
1.00	104.2	104.1	105.0	106.1	107.9	109.9	112.9	117.9	124.0	126.7	125.4	140.9
1.25	103.8	105.1	106.0	106.9	108.8	110.3	113.6	117.7	123.8	126.8	124.6	140.8
1.60	103.7	105.3	105.8	107.2	108.6	110.5	113.7	117.5	123.7	127.4	124.6	141.1
2.00	104.1	104.5	105.7	107.1	108.8	110.7	114.5	117.3	123.3	126.7	123.0	140.4
2.50	103.8	104.4	105.6	107.2	109.0	111.3	115.2	117.7	123.3	125.9	121.9	140.1
3.15	103.4	104.1	105.5	107.2	109.2	111.7	115.4	117.5	123.3	124.4	119.1	139.4
4.00	102.6	103.9	105.2	107.1	109.2	112.0	115.4	117.3	123.1	122.0	116.7	139.5
5.00	102.2	103.4	105.0	106.8	109.1	111.8	115.1	117.2	122.3	120.0	114.6	137.7
6.30	102.5	103.3	104.9	106.9	109.2	111.9	115.2	117.7	120.8	118.5	113.0	136.9
8.00	101.5	103.0	104.7	106.5	109.9	111.9	114.7	117.5	119.2	117.0	111.1	136.0
10.0	100.6	102.6	104.3	106.4	108.6	111.2	114.3	116.6	118.1	115.7	110.0	135.2
12.5	100.2	102.0	103.8	105.7	108.1	110.8	113.4	115.3	116.9	114.7	109.2	134.2
16.0	99.4	101.6	103.6	105.3	108.0	110.5	112.9	114.5	116.0	113.9	108.8	133.5
20.0	98.4	101.0	103.0	104.9	107.4	109.5	112.2	113.4	115.1	113.2	107.9	132.6
25.0	98.2	100.9	102.9	105.1	107.3	110.0	111.7	113.3	114.9	113.0	108.4	132.6
31.5	95.0	101.0	103.4	105.2	107.5	109.6	111.9	113.1	114.9	112.9	108.0	132.5
40.0	98.3	101.2	103.8	105.8	107.6	110.2	111.7	113.7	114.9	113.6	108.9	132.8
50.0	98.4	101.4	103.8	105.8	107.8	110.4	112.4	114.0	115.5	113.8	109.2	133.2
63.0	99.2	101.0	103.6	105.6	108.0	110.2	112.7	114.5	115.9	114.1	109.3	133.5
80.0	98.7	101.2	104.4	106.0	108.6	110.8	114.0	115.9	118.3	115.9	110.8	135.0
100.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
OSPL	115.7	116.9	118.3	119.9	121.9	124.2	127.2	130.0	134.6	136.7	134.8	OAPWL = 151.6

STAND X206 RIG ID 705308 TEST DATE 03/10/77 SCALE RATIO 12.0/1 RUN NUMBER 2008 CONDITION 8413

					PRIMARY	FAN		PRIMARY	FAN			PRIMARY	FAN		PRIMARY	FAN
TEMP	77.0(F)	25.0(C)	AREA	SQFT	8.640	11.520	SQM	0.803	1.070	MASS FLOW	LB/S	427.7	766.1	KG/S	194.0	347.5
PRES	30.11IN	1.02BAR	P.R.		2.00	2.47		2.00	2.47	THRUST,IDL	LB	23551.3	55513.9	KN	104.761	246.937
WIND D			TEMP	(R)	1446.7	1949.7	(K)	803.7	1093.2	THRUST,MEA	LB		0.0	KN	0.0	
WIND V	OMPH	0.0M/S	RHO	LB/FT3	0.033	0.026	KG/M3	0.528	0.409	AREA (MOD)	SQFT	0.060	0.090	SQM	0.006	0.007
REL H	70.0%		VEL	FPS	1773.2	2333.4	M/S	540.5	711.2	W (MODEL)	LB/S	3.0	5.3	KG/S	1.3	2.4

FAA DAY

1/3 OCTAVE BAND ENGINE JET NOISE DATA 150.0FT RADIUS (SCALED ENGINE)

BAND CENTER FREQ (KHZ)	MICROPHONE ANGLES IN DEGREES 60	70	80	90	100	110	120	130	140	150	160	POWER 1E-12W
.050	103.8	103.7	104.7	106.2	106.8	108.3	111.9	117.2	123.4	127.0	125.6	
.063	104.4	105.0	106.2	107.2	108.6	109.2	112.5	118.3	124.3	127.8	126.0	162.3
.080	105.0	105.7	106.6	107.7	109.5	111.5	114.4	119.5	125.6	128.3	127.0	163.1
.100	105.4	106.7	107.6	108.5	110.4	111.9	115.2	119.3	125.4	128.4	126.2	164.0
.125	105.3	106.9	107.4	108.8	110.2	112.1	115.3	119.1	125.3	129.0	126.2	163.9
.160	105.6	106.0	107.2	108.6	110.3	112.2	116.0	118.8	124.8	128.2	124.5	164.2
.200	105.3	105.9	107.1	108.7	110.5	112.8	116.7	119.2	124.8	127.4	123.4	163.5
.250	104.9	105.6	107.0	108.7	110.7	113.2	116.9	119.0	124.8	125.9	120.6	163.2
.315	104.1	105.4	106.7	108.6	110.7	113.5	116.9	118.8	124.6	123.5	118.2	162.5
.400	103.7	104.9	106.5	108.3	110.6	113.3	116.6	118.7	123.8	121.5	116.1	161.6
.500	103.9	104.7	106.3	108.3	110.6	113.3	116.6	119.1	122.2	119.9	114.4	160.8
.630	102.9	104.4	106.1	107.9	110.3	113.2	116.1	118.9	120.6	118.4	112.5	159.9
.800	102.0	104.0	105.7	107.8	110.0	112.6	115.7	118.0	119.5	117.1	111.4	159.0
1.00	101.5	103.3	105.1	107.0	109.4	112.1	114.7	116.6	118.2	116.0	110.5	158.1
1.25	100.6	102.8	104.8	106.5	109.2	111.7	114.1	115.7	117.2	115.1	110.0	157.1
1.60	99.5	102.1	104.1	106.0	108.5	110.6	113.3	114.5	116.2	114.3	109.0	156.3
2.00	99.3	102.0	104.0	106.2	108.4	111.1	112.8	114.4	116.0	114.1	109.5	155.4
2.50	98.9	101.9	104.3	106.1	108.4	110.5	112.8	114.0	115.8	113.8	108.9	155.2
3.15	99.0	101.9	104.5	106.5	108.3	110.9	112.4	114.4	115.6	114.3	109.6	155.0
4.00	98.9	101.9	104.3	106.3	108.3	110.9	112.9	114.5	116.0	114.3	109.7	155.1
5.00	98.5	101.3	103.9	105.9	108.3	110.5	113.0	114.8	116.2	114.4	109.6	155.2
6.30	98.7	101.2	104.4	106.0	108.6	110.8	114.0	115.9	118.3	115.9	110.8	155.4
8.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	156.5
10.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
												0.0
OSPL	116.5	117.8	119.3	120.9	122.9	125.3	128.3	131.1	135.8	137.6	134.7	OAPWL = 174.1
PNL	125.5	127.7	129.8	131.6	133.7	136.1	139.6	140.7	143.5	142.7	139.3	

200. SIDELINE

PNL	121.5	124.4	126.9	128.9	130.8	132.8	134.5	135.4	136.4	133.5	125.7	

370. SIDELINE

PNL	115.4	119.3	120.9	122.9	124.8	126.7	128.3	129.2	130.1	127.5	119.5	

800. SIDELINE

PNL	106.9	109.9	112.5	114.5	116.4	118.2	119.8	120.4	121.9	119.4	111.1	

2128. SIDELINE

PNL	94.8	97.4	99.6	101.6	103.6	105.5	107.4	108.3	110.3	108.0	99.6	

STAND X206 RIG ID 705308 TEST DATE 03/10/77 SCALE RATIO 12.0/1 RUN NUMBER 20084 CONDITION 8414

					PRIMARY	FAN		PRIMARY	FAN			PRIMARY	FAN		PRIMARY	FAN
TEMP	87°F	30.6°C	AREA	SQFT	0.0	0.0	SQM	0.0	0.0	MASS FLOW	LB/S	0.0	0.0	KG/S	0.0	0.0
PRES	30.11IN	1.02BAR	P.R.		1.99	4.07		1.99	4.07	THRUST,IDL	LB	159.1	448.0	KN	0.708	1.993
WIND D			TEMP	(R)	1449.7	1959.7	(K)	805.4	1088.7	THRUST,MEA	LB		0.0	KN	0.0	
WIND V	0MPH	0.0M/S	RHO	LB/FT3	0.033	0.029	KG/M3	0.527	0.458	AREA (MOD)	SQFT	0.060	0.080	SQM	0.006	0.007
REL H	16 %		VEL	FPS	1772.9	2828.6	M/S	540.4	862.2	W (MODEL)	LB/S	2.9	5.1	KG/S	1.3	2.3

1/3 OCTAVE BAND MODEL JET NOISE DATA 15.0FT RADIUS THEORETICAL DAY SPL - (MODEL)

BAND CENTER FREQ (KHZ)	MICROPHONE ANGLES IN DEGREES 60	70	80	90	100	110	120	130	140	150	160	POWER 1E-12W
.050	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
.063	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
.080	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
.100	95.0	98.3	100.3	98.6	99.6	101.0	102.4	104.1	106.0	110.9	115.7	0.0
.125	97.2	100.8	101.1	101.8	102.9	101.7	101.6	104.8	108.4	112.0	116.6	127.2
.160	102.9	104.6	102.3	102.6	102.1	101.4	102.6	103.7	108.7	113.5	118.5	128.5
.200	101.1	99.6	100.6	102.1	102.9	103.7	105.8	107.6	113.6	118.8	121.8	129.7
.250	102.8	101.6	102.3	103.7	105.2	106.1	107.6	110.2	115.5	121.0	124.3	133.3
.315	101.5	101.7	103.9	105.8	107.3	107.8	109.8	113.8	117.3	123.7	127.4	135.6
.400	106.7	106.0	105.7	106.5	108.7	110.4	113.1	116.6	122.2	126.8	130.4	138.2
.500	106.0	105.8	106.3	106.9	108.1	110.2	112.8	117.7	125.0	129.5	128.8	141.5
.630	106.9	106.8	107.8	108.9	109.5	111.1	114.7	120.6	126.5	130.3	129.3	142.9
.800	107.4	107.7	109.1	110.0	111.1	111.9	115.2	121.6	127.5	131.2	129.4	144.0
1.00	108.1	108.1	109.0	109.7	111.9	113.9	117.0	122.8	128.9	131.6	129.5	144.8
1.25	107.6	108.3	109.3	110.2	112.3	114.4	118.0	122.8	129.2	131.5	127.4	145.6
1.60	107.1	108.2	108.9	110.3	112.1	114.2	118.3	123.1	129.8	131.5	125.7	145.5
2.00	110.5	109.1	109.2	110.4	112.4	114.7	119.3	123.4	130.7	129.5	122.8	145.7
2.50	112.3	112.9	111.9	111.4	113.1	115.6	120.4	124.4	130.9	127.3	121.6	145.3
3.15	110.6	112.7	114.4	113.7	113.9	116.3	121.0	124.8	129.7	125.6	119.5	145.1
4.00	109.8	110.6	112.5	114.8	115.0	116.9	121.1	125.3	127.6	123.6	117.6	144.5
5.00	109.9	110.6	111.4	113.1	115.7	117.1	120.9	125.0	125.9	121.8	115.6	143.5
6.30	110.0	110.8	112.2	112.8	115.1	117.6	121.1	124.3	125.0	120.2	113.8	142.6
8.00	109.8	110.8	112.0	113.1	114.8	117.5	120.6	123.0	123.5	118.7	112.1	141.9
10.0	109.6	111.4	112.4	113.1	114.8	117.1	120.1	121.9	122.5	117.6	110.9	141.0
12.5	109.2	111.4	112.8	113.1	114.7	116.6	119.1	120.7	121.4	116.5	109.9	140.3
16.0	108.5	111.0	113.0	113.8	115.1	116.5	118.6	120.3	120.7	115.8	109.6	139.5
20.0	107.9	110.4	112.2	113.2	114.7	115.7	117.9	119.3	119.6	115.0	108.6	139.1
25.0	108.1	110.4	112.3	113.6	114.9	116.3	117.7	119.2	119.4	114.8	109.5	138.3
31.5	108.3	110.8	112.9	114.0	115.1	116.1	117.9	119.1	119.3	114.9	109.3	138.4
40.0	108.7	111.3	113.4	114.8	115.4	117.1	118.1	119.8	119.5	115.5	110.4	139.4
50.0	109.3	111.7	113.7	114.9	116.1	117.5	119.1	120.2	119.9	115.8	110.9	138.9
63.0	109.2	112.0	114.0	115.3	116.9	117.9	119.6	120.9	120.0	116.3	111.2	139.5
80.0	110.0	112.6	115.2	116.2	117.9	119.0	121.2	122.1	121.9	117.9	112.5	139.9
100.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	141.3
												0.0
OSPL	123.0	124.4	125.9	126.8	128.2	129.9	132.9	136.1	140.1	140.5	138.6	OAPWL = 156.7

20084F TAPE P7334 NASA VSCE (NAS3-20061) CONFIG. C 15.2049

STAND X206 RIG ID 705308 TEST DATE 03/10/77 SCALE RATIO 12.0/1 RUN NUMBER 2009 CONDITION 9414

			PRIMARY	FAN		PRIMARY	FAN			PRIMARY	FAN		PRIMARY	FAN
TEMP 77.0(F) 25.0(C)	AREA	SQFT	8.640	11.520	SQM	0.803	1.070	MASS FLOW	LB/S	416.2	734.4	KG/S	188.8	333.1
PRES 30.111N 1.02BAR	P.R.		1.99	4.07		1.99	4.07	THRUST,IDL	LB	22913.2	64514.3	KN	101.922	286.972
WIND D	TEMP	(R)	1449.7	1959.7	(K)	805.4	1088.7	THRUST,MEA	LB		0.0	KN	0.0	
WIND V 0MPH 0.0M/S	RHO	LB/FT3	0.033	0.029	KG/M3	0.527	0.458	AREA (MOD)	SQFT	0.060	0.090	SQM	0.006	0.007
REL H 70.0%	VEL	FPS	1772.9	2828.6	M/S	540.4	862.2	W (MODEL)	LB/S	2.9	5.1	KG/S	1.3	2.3

FAA DAY

1/3 OCTAVE BAND ENGINE JET NOISE DATA 150.0FT RADIUS (SCALED ENGINE)

BAND CENTER FREQ (KHZ)	MICROPHONE ANGLES IN DEGREES 60	70	80	90	100	110	120	130	140	150	160	POWER 1E-12W
.050	108.5	108.4	109.4	110.5	111.1	112.7	116.3	122.2	128.1	131.9	130.9	
.063	109.0	109.3	110.7	111.6	112.7	113.5	116.8	123.2	129.1	132.8	131.0	167.2
.080	109.7	109.7	110.6	111.3	113.5	115.5	118.6	124.4	130.5	133.2	131.1	168.0
.100	109.2	109.9	110.9	111.8	113.9	116.0	119.6	124.4	130.8	133.1	129.0	168.8
.125	108.7	109.8	110.5	111.9	113.7	115.8	119.9	124.7	131.4	133.1	127.3	168.7
.160	112.0	110.6	110.7	111.9	113.9	116.2	120.8	124.9	132.2	131.0	124.3	168.8
.200	113.8	114.4	113.4	112.9	114.6	117.1	121.9	125.9	132.4	128.8	123.1	168.4
.250	112.1	114.2	115.9	115.2	115.4	117.5	122.5	126.3	131.2	127.1	121.0	168.3
.315	111.3	112.1	114.0	116.3	116.5	118.4	122.6	126.8	129.1	125.1	119.1	167.6
.400	111.4	112.1	112.9	114.6	117.2	118.6	122.4	126.5	127.4	123.3	117.1	166.5
.500	111.4	112.2	113.6	114.2	116.5	119.0	122.5	125.7	126.4	121.6	115.2	165.6
.630	111.2	112.2	113.4	114.5	116.2	118.9	122.0	124.4	124.9	120.1	113.5	165.0
.800	111.0	112.8	113.8	114.5	116.2	118.5	121.5	123.3	123.9	119.0	112.3	164.0
1.00	110.5	112.7	114.1	114.4	116.0	117.9	120.4	122.0	122.7	117.8	111.2	163.2
1.25	109.7	112.2	114.2	115.0	116.3	117.7	119.8	121.5	121.9	117.0	110.8	162.4
1.60	109.0	111.5	113.3	114.3	115.8	116.8	119.0	120.4	120.7	116.1	109.7	162.0
2.00	109.2	111.5	113.4	114.7	116.0	117.4	118.8	120.3	120.5	115.9	110.6	161.0
2.50	109.2	111.7	113.8	114.9	116.0	117.0	118.8	120.0	120.2	115.8	110.2	161.0
3.15	109.4	112.0	114.1	115.5	116.1	117.8	118.8	120.5	120.2	116.2	111.1	160.9
4.00	109.8	112.2	114.2	115.4	116.6	118.0	119.6	120.7	120.4	116.3	111.4	161.2
5.00	109.5	112.3	114.3	115.6	117.2	118.2	119.9	121.2	120.3	116.6	111.5	161.5
6.30	110.0	112.6	115.2	116.2	117.9	119.0	121.2	122.1	121.9	117.9	112.5	161.8
8.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	162.8
10.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
												0.0

OAPWL = 179.2

OSPL	123.9	125.3	126.7	127.7	129.1	130.9	133.9	137.2	141.3	141.3	137.8	
PNL	134.8	136.8	138.5	139.6	140.9	142.5	144.8	146.8	148.1	145.1	140.0	

200. SIDELINE

PNL	130.7	133.4	135.6	136.9	138.0	139.1	140.6	141.5	141.2	136.1	127.3	

370. SIDELINE

PNL	124.4	127.3	129.5	130.8	131.5	133.0	134.4	135.3	135.1	130.1	121.2	

800. SIDELINE

PNL	115.8	118.7	121.0	122.3	123.3	124.4	125.6	126.6	127.2	122.1	112.9	

2128. SIDELINE

PNL	102.9	105.4	107.8	109.0	110.1	111.1	113.1	114.9	115.9	110.9	101.6	

STAND X206 RIG ID 705308 TEST DATE 03/10/77 SCALE RATIO 0.0/1 RUN NUMBER 20085 CONDITION 8501

				PRIMARY	FAN		PRIMARY	FAN			PRIMARY	FAN		PRIMARY	FAN
TEMP	89°F	31.7°C	AREA SQFT	0.0	0.0	SQM	0.0	0.0	MASS FLOW	LB/S	0.0	0.0	KG/S	0.0	0.0
PRES	30.13IN	1.026BAR	P.R.	1.52	1.23		1.52	1.23	THRUST,IDL	LB	99.1	79.4	KN	0.441	0.353
WIND D			TEMP (R)	1456.7	1265.7	(K)	809.3	703.2	THRUST,MEA	LB		0.0	KN	0.0	
WIND V	0MPH	0.0M/S	RHO LB/FT3	0.031	0.033	KG/M3	0.490	0.534	AREA (MOD)	SQFT	0.060	0.080	SQM	0.006	0.007
REL H	23 %		VEL FPS	1412.6	926.4	M/S	430.6	282.4	W (MODEL)	LB/S	2.3	2.8	KG/S	1.0	1.3

1/3 OCTAVE BAND MODEL JET NOISE DATA 15.0FT RADIUS THEORETICAL DAY SPL - (MODEL)

BAND CENTER FREQ (KHZ)	MICROPHONE ANGLES IN DEGREES 60	70	80	90	100	110	120	130	140	150	160	POWER 1E-12W
.050	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
.063	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
.080	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
.100	76.5	79.6	82.7	83.9	82.8	83.7	86.0	88.4	90.1	93.7	97.4	110.1
.125	77.7	82.1	82.9	83.4	84.8	85.6	85.0	89.2	92.6	95.4	97.9	111.4
.160	82.6	85.7	84.6	84.4	82.8	84.7	85.6	87.6	93.3	97.6	100.4	112.7
.200	81.7	81.6	82.6	84.2	85.4	86.4	88.8	91.2	97.2	101.6	103.1	115.9
.250	82.8	83.6	84.4	86.2	87.2	88.4	90.4	93.8	99.1	103.6	105.4	117.9
.315	85.3	85.3	86.9	88.6	89.5	90.7	93.0	97.2	101.3	105.1	109.0	120.7
.400	88.1	88.7	89.8	90.5	92.4	94.3	96.6	100.1	105.6	109.2	111.9	123.9
.500	91.3	89.9	90.8	92.4	93.1	94.5	97.1	100.8	107.1	111.2	111.0	125.1
.630	91.4	90.8	91.8	93.6	94.5	96.0	98.9	103.1	108.5	112.2	112.0	126.3
.800	90.8	92.5	93.2	94.1	95.3	96.5	98.8	103.6	109.0	112.7	111.7	126.7
1.00	91.6	91.6	92.8	93.8	95.8	97.9	100.2	104.2	109.2	111.6	111.0	126.3
1.25	90.3	91.9	92.7	93.7	95.6	97.4	100.1	103.6	107.8	109.4	107.8	124.8
1.60	89.6	90.6	92.1	93.2	94.9	96.8	99.6	103.1	106.4	107.6	104.9	123.2
2.00	88.8	89.8	91.6	92.9	94.7	96.6	99.3	102.3	104.3	103.5	100.6	121.4
2.50	87.8	89.5	91.2	92.7	94.4	96.2	98.9	101.8	102.5	100.3	97.5	120.1
3.15	87.5	88.7	90.7	92.0	93.8	95.7	98.3	100.5	100.1	96.8	92.4	118.6
4.00	87.0	88.2	89.9	91.4	93.2	95.1	97.5	99.0	97.5	92.9	88.4	117.2
5.00	86.4	87.1	88.8	90.3	92.0	93.8	96.1	97.1	94.8	89.9	84.7	115.6
6.30	85.5	86.2	88.0	89.4	91.1	92.9	95.2	95.3	92.4	87.4	82.0	114.2
8.00	84.0	85.3	87.0	88.2	90.0	91.7	93.5	93.3	90.2	85.5	79.9	112.7
10.0	82.7	84.2	86.0	87.3	88.8	90.5	92.0	91.1	88.7	84.0	78.3	111.2
12.5	81.7	82.7	84.5	86.0	87.5	89.1	90.3	89.2	86.8	82.6	77.4	109.7
16.0	80.4	81.9	83.8	84.8	86.5	87.9	88.7	87.8	85.3	81.2	75.9	108.4
20.0	78.7	80.0	81.9	83.0	84.7	85.8	86.8	85.6	83.5	79.8	74.3	106.4
25.0	77.6	78.6	81.0	82.3	83.8	85.2	85.5	84.5	82.2	79.0	75.2	106.4
31.5	76.4	78.0	80.2	81.3	83.0	83.9	84.8	83.2	81.7	78.6	74.0	105.5
40.0	76.3	78.0	80.0	81.6	82.7	84.1	84.0	83.6	81.5	79.6	75.3	104.5
50.0	76.3	78.0	80.1	81.5	82.7	84.3	84.7	83.8	82.1	79.8	76.6	104.5
63.0	76.0	78.0	80.1	81.6	83.2	84.4	84.8	84.2	83.0	81.8	78.8	104.8
80.0	76.9	78.4	81.1	82.1	83.9	84.9	86.1	85.5	85.0	84.6	81.2	105.1
100.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	106.3
												0.0
OSPL	101.2	102.0	103.3	104.5	106.1	107.8	110.2	113.3	117.2	119.9	119.9	OAPWL = 135.0

STAND X206 RIG ID 705206 TEST DATE 03/10/77 SCALE RATIO 12.0/1 RUN NUMBER 2008 CONDITION 8501

			PRIMARY	FAN			PRIMARY	FAN			PRIMARY	FAN			PRIMARY	FAN
TEMP	77.0(F)	25.0(C)	AREA	SQFT	8.640	11.520	SQM	0.803	1.070	MASS FLOW	LB/S	325.4	397.4	KG/S	147.6	180.3
PRES	30.13IN	1.02BAR	P.R.		1.52	1.23		1.52	1.23	THRUST,IDL	LB	14277.4	11434.4	KN	63.509	50.863
WIND D			TEMP	(R)	1456.7	1265.7	(K)	809.3	703.2	THRUST,MEA	LB		0.0	KN	0.0	
WIND V	0MPH	0.0M/S	RHO	LB/FT3	0.031	0.033	KG/M3	0.490	0.534	AREA (MOD)	SQFT	0.060	0.080	SQM	0.006	0.007
REL H	70.0%		VEL	FPS	1412.6	926.4	M/S	430.6	282.4	W (MODEL)	LB/S	2.3	2.8	KG/S	1.0	1.3

FAA DAY 1/3 OCTAVE BAND ENGINE JET NOISE DATA 150.0FT RADIUS (SCALED ENGINE)

BAND CENTER FREQ (KHZ) — MICROPHONE ANGLES IN DEGREES

	60	70	80	90	100	110	120	130	140	150	160	POW 1E-1
.050	93.0	92.4	92.4	95.2	96.1	97.6	100.5	104.7	110.1	113.8	113.6	
.063	92.4	94.1	94.8	95.7	96.9	98.1	100.4	105.2	110.6	114.3	113.3	149.
.080	93.2	93.2	94.4	95.4	97.4	99.5	101.8	105.8	110.8	113.2	112.6	149.
.100	91.9	93.5	94.2	95.3	97.2	99.0	101.7	105.2	109.4	111.0	109.4	149.
.125	91.2	92.2	93.7	94.8	96.5	98.4	101.2	104.7	108.6	108.6	106.5	147.
.160	90.3	91.3	93.1	94.4	96.2	98.1	100.8	103.8	105.8	105.0	102.1	146.
.200	89.3	91.0	92.7	94.2	95.9	97.7	100.4	103.3	104.0	101.8	99.0	144.
.250	89.0	90.2	92.2	93.5	95.3	97.2	99.8	102.0	101.6	98.3	93.9	143.
.315	88.5	89.7	91.4	92.9	94.7	96.6	99.0	100.5	99.0	94.4	89.9	141.
.400	87.9	88.6	90.3	91.8	93.5	95.3	97.6	98.6	96.3	91.4	86.2	140.
.500	86.9	87.6	89.4	90.8	92.5	94.3	96.6	96.7	93.8	88.8	83.4	138.
.630	85.4	86.7	88.4	89.6	91.4	93.1	94.9	94.7	91.6	86.9	81.3	137.
.800	84.1	85.6	87.4	88.7	90.2	91.9	93.4	92.5	90.1	85.4	79.7	135.
1.00	83.0	84.0	85.8	87.3	88.8	90.4	91.6	90.5	88.1	83.9	78.7	134.
1.25	81.6	83.1	85.0	86.0	87.7	89.1	89.9	89.0	86.5	82.4	77.1	132.
1.60	79.8	81.1	83.0	84.1	85.8	86.9	87.9	86.7	84.6	80.9	75.4	131.
2.00	78.7	79.7	82.1	83.4	84.9	86.3	86.6	85.6	83.3	80.1	76.3	129.
2.50	77.3	78.9	81.1	82.2	83.9	84.8	85.7	84.1	82.6	79.5	74.9	128.
3.15	77.0	78.7	80.7	82.3	83.4	84.8	84.7	84.3	82.2	80.3	76.0	127.
4.00	76.8	78.5	80.6	82.0	83.2	84.8	85.2	84.3	82.6	80.3	77.1	128.
5.00	76.3	78.3	80.4	81.9	83.5	84.7	85.1	84.5	83.3	82.1	79.1	128.
6.30	76.9	78.4	81.1	82.1	83.9	84.9	86.1	85.5	85.0	84.6	81.2	127.
8.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	127.
10.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.
												0.

OAPWL = 156.

OSPL	101.6	102.6	103.9	105.2	106.8	108.6	111.0	114.1	117.7	119.9	118.9
PNL	106.6	107.9	109.8	111.1	112.6	114.2	116.0	117.4	118.2	118.0	115.9

200. SIDELINE

PNL	102.7	104.7	106.9	108.5	109.8	111.0	112.1	112.4	111.6	109.1	103.6

370. SIDELINE

PNL	96.8	98.7	101.0	102.5	104.0	105.2	106.4	106.7	105.9	103.4	97.8

800. SIDELINE

PNL	88.9	90.9	93.3	94.8	96.3	97.5	98.7	99.1	98.4	95.9	90.2

2128. SIDELINE

PNL	77.6	79.7	82.1	83.7	85.3	86.5	87.8	88.5	88.0	85.3	78.6

STAND X206 RIG ID 705308 TEST DATE 03/10/77 SCALE RATIO 12.0/1 RUN NUMBER 20085 CONDITION 8502

				PRIMARY	FAN		PRIMARY	FAN			PRIMARY	FAN		PRIMARY	FAN
TEMP	89°F	31.7°C	AREA SQFT	0.0	0.0	SQM	0.0	0.0	MASS FLOW	LB/S	0.0	0.0	KG/S	0.0	0.0
PRES	30.13IN	1.02BAR	P.R.		1.52	1.79		1.52	1.79	THRUST,IDL	LB	95.1	220.8	KN	0.423	0.982
WIND D			TEMP (R)	1451.7	1265.7	(K)	806.5	703.2	THRUST,MEA	LB		0.0		KN	0.0	
WIND V	OMPH	0.0M/S	RHO LB/FT3	0.031	0.037	KG/M3	0.491	0.589	AREA (MOD)	SQFT	0.060	0.080	SQM	0.006	0.007
REL H	21 %		VEL FPS	1410.5	1532.0	M/S	429.9	466.9	W (MODEL)	LB/S	2.2	4.6	KG/S	1.0	2.1

1/3 OCTAVE BAND MODEL JET NOISE DATA 15.0FT RADIUS THEORETICAL DAY SPL - (MODEL)

BAND CENTER FREQ (KHZ)	MICROPHONE ANGLES IN DEGREES 60	70	80	90	100	110	120	130	140	150	160	POWE 1E-12
.050	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.
.063	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.
.080	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.
.100	81.5	84.8	87.4	88.0	87.1	88.7	90.8	92.8	94.7	98.3	102.4	114.
.125	82.3	86.4	87.0	87.9	89.5	90.3	89.7	93.5	97.0	99.8	102.6	115.
.160	87.3	90.4	89.1	88.8	87.8	89.3	90.2	92.3	97.7	102.2	105.3	117.
.200	86.5	86.6	87.4	89.1	90.0	91.2	93.2	95.6	101.4	105.9	107.9	120.
.250	87.6	88.4	89.2	91.1	92.1	93.5	95.3	98.5	103.7	108.2	110.2	122.
.315	89.8	89.7	91.2	93.1	94.3	95.5	97.7	101.9	105.8	110.5	113.4	125.
.400	92.7	93.2	94.1	94.8	97.1	98.9	101.1	105.1	109.8	113.8	116.3	128.
.500	94.7	94.2	95.1	96.3	97.3	99.2	101.7	105.8	112.1	115.9	115.2	129.
.630	96.1	95.3	96.3	98.1	99.0	100.6	103.7	108.1	113.4	117.0	116.4	131.
.800	94.9	96.4	97.1	98.4	99.9	101.2	103.7	108.4	113.5	117.0	116.0	131.
1.00	96.0	96.3	97.3	98.6	100.7	102.8	105.2	108.8	113.1	115.8	116.2	130.
1.25	95.3	96.5	97.8	98.8	100.8	102.7	105.3	108.6	111.7	113.9	113.9	129.
1.60	94.4	95.7	97.1	98.6	100.4	102.2	105.2	108.2	110.4	111.7	111.6	128.
2.00	94.2	95.5	97.2	98.6	100.3	102.7	105.4	107.9	109.1	109.3	108.9	127.
2.50	94.2	95.5	97.2	98.8	100.7	102.9	105.8	108.0	108.2	107.9	108.5	126.
3.15	94.3	95.5	97.1	98.7	100.7	103.1	105.6	107.2	107.2	106.8	106.6	126.
4.00	94.1	95.5	97.0	98.6	100.8	103.1	105.6	106.6	106.2	105.5	105.6	126.
5.00	94.0	94.8	96.3	97.9	100.2	102.3	104.9	105.6	104.8	104.3	103.6	125.
6.30	93.8	94.5	96.1	97.8	99.9	102.3	104.6	104.9	103.7	103.1	102.0	124.
8.00	92.4	93.8	95.5	97.0	99.1	101.5	103.6	103.8	102.3	101.4	99.8	124.
10.0	91.3	93.1	94.8	96.5	98.5	100.7	102.7	102.2	101.2	99.9	97.7	123.
12.5	90.7	92.2	94.0	95.6	97.5	99.9	101.5	101.0	99.4	98.2	95.7	122.
16.0	89.5	91.5	93.4	94.7	96.8	99.1	100.5	99.7	98.0	96.7	93.8	120.
20.0	87.9	89.8	91.7	93.3	95.4	97.3	99.0	97.6	96.4	94.7	91.7	119.
25.0	86.8	88.5	90.7	92.8	94.7	97.0	97.7	96.4	95.2	93.5	90.8	118.
31.5	85.5	87.8	90.1	91.9	94.0	95.5	96.9	95.3	94.3	92.4	89.6	117.
40.0	85.8	87.9	90.3	92.1	93.7	96.0	96.2	95.8	94.2	92.8	90.0	116.
50.0	85.7	87.9	90.2	91.9	93.8	95.9	96.7	95.6	94.0	92.6	90.5	116.
63.0	85.4	87.6	90.1	91.9	93.9	95.6	96.2	95.4	93.8	92.7	90.8	116.
80.0	86.0	88.2	90.9	92.4	94.5	96.0	97.1	95.9	95.5	94.4	92.3	116.
100.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	116.
												0.0
OSPL	106.9	107.9	109.3	110.8	112.6	114.7	117.0	119.2	122.1	124.8	125.0	OAPWL = 140.4

STAND X206 RIG ID 705308 TEST DATE 03/10/77 SCALE RATIO 12.0/1 RUN NUMBER 2008 CONDITION 8502

			PRIMARY	FAN		PRIMARY	FAN		PRIMARY	FAN		PRIMARY	FAN
TEMP	77.0(F)	25.0(C)	AREA SQFT	8.646	11.520	SQM	0.803	1.070	MASS FLOW LB/S	312.5	668.2	KG/S	141.7	303.1
PRES	30.13IN	1.02BAR	P.R.	1.52	1.79		1.52	1.79	THRUST,IDL LB	13688.4	31789.0	KN	60.889	141.404
WIND D			TEMP (R)	1451.7	1265.7	(K)	806.5	703.2	THRUST,MEA LB		0.0	KN	0.0	
WIND V	0MPH	0.0M/S	RHO LB/FT3	0.031	0.037	KG/M3	0.491	0.589	AREA (MOD) SQFT	0.060	0.060	SQM	0.006	0.007
REL H	70.0%		VEL FPS	1410.5	1532.0	M/S	429.9	466.9	W (MODEL) LB/S	2.2	4.6	KG/S	1.0	2.1

FAA DAY

1/3 OCTAVE BAND ENGINE JET NOISE DATA 150.0FT RADIUS (SCALED ENGINE)

BAND CENTER FREQ (KHZ)	MICROPHONE ANGLES IN DEGREES 60	70	80	90	100	110	120	130	140	150	160	POWER IE-12W
.050	97.7	96.9	97.9	99.7	100.6	102.2	105.3	109.7	115.0	118.6	118.0	
.063	96.5	98.0	98.7	100.0	101.5	102.8	105.3	110.0	115.1	118.6	117.6	154.2
.080	97.6	97.9	98.9	100.2	102.3	104.4	106.8	110.4	114.7	117.4	117.8	154.2
.100	96.9	98.1	99.4	100.4	102.4	104.3	106.9	110.2	113.3	115.5	115.5	153.9
.125	96.0	97.3	98.7	100.2	102.0	103.9	106.8	109.8	112.0	113.3	113.2	152.6
.160	95.7	97.0	98.7	100.1	101.8	104.2	106.9	109.4	110.6	110.8	110.4	151.3
.200	95.7	97.0	98.7	100.3	102.2	104.4	107.3	109.5	109.7	109.4	110.0	150.1
.250	95.8	97.0	98.6	100.2	102.2	104.6	107.1	108.7	108.7	108.3	108.1	149.8
.315	95.6	97.0	98.5	100.1	102.3	104.6	107.1	108.1	107.7	107.0	107.1	149.2
.400	95.5	96.3	97.8	99.4	101.7	103.8	106.4	107.1	106.3	105.8	105.1	148.7
.500	95.2	95.9	97.5	99.2	101.3	103.7	106.0	106.3	105.1	104.5	103.4	147.7
.630	93.8	95.2	96.9	98.4	100.5	102.9	105.0	105.2	103.7	102.8	101.2	147.1
.800	92.7	94.5	96.2	97.9	99.9	102.1	104.1	103.6	102.6	101.3	99.1	146.0
1.00	92.0	93.5	95.3	96.9	98.8	101.2	102.8	102.3	100.7	99.5	97.0	144.9
1.25	90.7	92.7	94.6	95.9	98.0	100.3	101.7	100.9	99.2	97.9	95.0	143.7
1.60	89.0	90.9	92.8	94.4	96.5	98.4	100.1	98.7	97.5	95.8	92.8	142.6
2.00	87.9	89.6	91.8	93.9	95.8	98.1	98.8	97.5	96.3	94.6	91.9	140.8
2.50	86.4	88.7	91.0	92.8	94.9	96.4	97.8	96.2	95.2	93.3	90.5	139.6
3.15	86.5	88.6	91.0	92.8	94.4	96.7	96.9	96.5	94.9	93.5	90.7	138.6
4.00	86.2	88.4	90.7	92.4	94.3	96.4	97.2	96.1	94.5	93.1	91.0	138.4
5.00	85.7	87.9	90.4	92.2	94.2	95.9	96.5	95.7	94.1	93.0	91.1	138.2
6.30	86.0	88.2	90.9	92.4	94.5	96.0	97.1	95.9	95.5	94.4	92.3	137.9
8.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	136.3
10.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
												0.0

OAPWL = 162.4

OSPL	107.6	108.6	110.1	111.6	113.6	115.7	118.0	120.1	122.6	124.8	124.5
PNL	114.7	116.4	118.4	120.0	121.9	124.0	125.5	125.7	125.7	126.1	125.3

200. SIDELINE

PNL	110.7	113.1	115.5	117.3	119.1	120.7	121.4	120.6	119.0	117.1	112.9

370. SIDELINE

PNL	104.6	107.1	109.6	111.4	113.1	114.7	115.4	114.9	113.2	111.3	106.9

800. SIDELINE

PNL	96.7	98.9	101.3	103.1	104.9	106.4	107.7	107.1	105.5	103.5	99.0

2128. SIDELINE

PNL	85.3	87.6	89.9	91.7	93.6	95.2	96.4	96.1	94.6	92.8	87.8

STAND X206 RIG ID 705308 TEST DATE 03/10/77 SCALE RATIO 12.0/1 RUN NUMBER 20085 CONDITION 8503

				PRIMARY	FAN		PRIMARY	FAN			PRIMARY	FAN		PRIMARY	FAN
TEMP	90°F	32.2°C	AREA SQFT	0.0	0.0	SQM	0.0	0.0	MASS FLOW	LB/S	0.0	0.0	KG/S	0.0	0.0
PRES	30.13IN	1.02BAR	P.R.	1.51	2.48		1.51	2.48	THRUST,IDL	LB	91.4	379.2	KN	0.407	1.687
WIND D			TEMP (R)	1459.7	1257.7	(K)	810.9	698.7	THRUST,MEA	LB		0.0	KN	0.0	
WIND V	GMPH	0.0M/S	RHO LB/FT3	0.030	0.040	KG/M3	0.487	0.646	AREA (MOD)	SQFT	0.060	0.080	SQM	0.006	0.007
REL H	21 %		VEL FPS	1394.8	1866.9	M/S	425.1	569.0	W (MODEL)	LB/S	2.1	6.5	KG/S	1.0	3.0

1/3 OCTAVE BAND MODEL JET NOISE DATA 15.0FT RADIUS THEORETICAL DAY SPL - (MODEL)

BAND CENTER FREQ (KHZ)	MICROPHONE ANGLES IN DEGREES 60	70	80	90	100	110	120	130	140	150	160	POWER 15-12W
.050	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
.063	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
.080	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
.100	85.8	88.8	91.6	92.1	90.7	92.1	95.6	95.7	97.7	102.0	106.2	118.3
.125	87.2	90.6	91.2	92.5	93.6	94.2	93.2	96.5	100.2	103.5	106.5	119.5
.160	92.5	94.9	93.1	93.3	92.1	93.4	93.9	95.6	101.3	106.0	109.5	121.3
.200	91.2	91.1	92.2	95.6	94.2	95.4	96.9	99.1	104.9	109.7	111.9	124.1
.250	92.3	92.4	93.2	95.1	96.1	97.4	98.8	101.7	107.0	112.0	114.4	126.4
.315	93.6	93.4	95.4	97.2	98.2	99.4	101.3	105.3	109.5	114.9	118.0	127.4
.400	96.8	97.1	97.9	98.8	100.6	102.4	104.2	108.1	113.3	117.6	120.6	132.3
.500	98.7	98.1	99.2	100.1	100.8	102.4	105.0	109.3	115.9	120.1	119.5	133.8
.630	100.2	99.6	100.1	102.0	102.6	104.0	106.8	111.4	117.0	120.7	120.5	134.7
.800	98.9	99.8	100.8	102.1	103.5	104.6	106.9	111.9	116.8	120.6	120.3	134.7
1.00	100.1	100.2	101.2	102.4	104.2	106.1	108.4	112.6	116.7	119.7	120.8	134.6
1.25	99.8	100.4	102.1	103.1	104.3	106.2	108.9	112.6	115.6	118.4	119.3	133.7
1.60	99.5	100.6	101.9	103.0	104.4	106.4	109.2	112.9	115.0	117.9	118.9	133.5
2.00	100.3	100.8	102.2	103.5	105.0	107.1	110.0	112.9	114.3	117.8	118.6	133.5
2.50	100.7	101.1	102.6	103.9	105.8	107.6	110.8	113.5	114.4	118.6	120.2	134.1
3.15	101.2	101.4	102.9	104.3	105.9	108.2	111.1	113.3	114.7	119.4	119.3	134.3
4.00	101.0	101.6	103.0	104.5	106.1	108.6	111.4	113.3	115.1	120.1	118.6	134.6
5.00	102.7	101.5	102.5	104.0	105.8	108.1	111.1	112.7	115.5	119.4	116.4	134.1
6.30	106.5	102.8	102.5	103.8	105.6	108.2	111.0	112.3	115.4	117.0	113.9	133.1
8.00	108.4	107.5	105.4	104.0	105.3	107.8	110.4	111.4	114.6	115.3	112.0	132.6
10.0	105.6	107.8	108.5	106.0	105.4	107.3	109.9	110.4	113.4	114.1	110.1	132.0
12.5	102.5	104.2	106.8	107.5	106.1	107.0	108.8	109.2	111.7	112.5	108.3	130.8
16.0	102.4	103.2	104.4	105.8	107.2	107.4	108.5	108.6	110.6	111.3	107.1	130.1
20.0	99.8	101.9	103.4	103.7	105.6	107.0	107.5	106.9	109.2	109.8	105.5	128.7
25.0	98.6	100.0	102.3	103.4	104.5	107.0	106.9	106.0	108.0	108.9	104.8	128.0
31.5	97.0	99.2	101.4	102.6	104.2	105.6	106.8	105.3	107.6	108.6	104.1	127.3
40.0	96.8	99.1	101.4	102.8	104.0	106.0	106.3	106.1	107.9	109.4	104.6	127.6
50.0	96.7	98.7	101.2	102.6	104.2	106.3	107.0	106.4	108.4	109.9	105.3	128.0
63.0	96.0	98.3	100.8	102.3	104.2	106.1	107.1	106.7	108.7	110.5	105.7	128.1
80.0	96.7	98.8	101.8	102.9	105.1	106.7	108.2	107.7	110.9	112.7	107.4	129.5
100.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
OSPL	115.6	115.9	116.9	117.6	118.8	120.6	122.7	124.8	127.9	131.2	131.1	OAPWL = 146.5

20085F TAPE P7338 NASA VSCE (NAS3-20061) CONFIG. D

15.2049

STAND X206 RIG ID 705308 TEST DATE 03/10/77 SCALE RATIO 12.0/1 RUN NUMBER 2008 CONDITION 8503

			PRIMARY	FAN		PRIMARY	FAN			PRIMARY	FAN		PRIMARY	FAN
TEMP	77.0(F) 25.0(C)	AREA SQFT	8.640	11.520	SQM	0.803	1.070	MASS FLOW	LB/S	303.8	941.8	KG/S	137.8	427.2
PRES	30.13IN 1.02BAR	P.R.	1.51	2.48		1.51	2.48	THRUST,IDL	LB	13161.2	54602.4	KN	58.544	242.882
WIND D		TEMP (R)	1459.7	1287.7	(K)	810.9	698.7	THRUST,MEA	LB		0.0	KN	0.0	
WIND V	0MPH 0.0M/S	RHO LB/FT3	0.030	0.040	KG/M3	0.487	0.646	AREA (MOD)	SQFT	0.060	0.060	SQM	0.006	0.007
REL H	70.0%	VEL FPS	1394.8	1866.9	M/S	425.1	569.0	W (MODEL)	LB/S	2.1	6.5	KG/S	1.0	3.0

FAA DAY

1/3 OCTAVE BAND ENGINE JET NOISE DATA 150.0FT RADIUS (SCALED ENGINE)

BAND CENTER FREQ (KHZ)	MICROPHONE ANGLES IN DEGREES 60	70	80	90	100	110	120	130	140	150	160	POWER 1E-12W
.050	101.8	101.2	101.7	103.6	104.2	105.6	108.4	113.0	118.6	122.3	122.1	
.063	100.5	101.4	102.4	103.7	105.1	106.2	108.5	113.5	118.4	122.2	121.9	157.9
.080	101.7	101.8	102.8	104.0	105.8	107.7	110.0	114.2	118.3	121.3	122.4	157.8
.100	101.4	102.0	103.7	104.7	105.9	107.8	110.5	114.2	117.2	120.0	120.9	157.7
.125	101.1	102.2	103.5	104.6	106.0	108.0	110.8	114.5	116.6	119.5	120.5	156.9
.160	101.8	102.3	103.7	105.0	106.5	108.6	111.5	114.4	115.8	119.3	120.1	156.6
.200	102.2	102.6	104.1	105.4	107.3	109.1	112.3	115.0	115.9	120.1	121.7	156.4
.250	102.7	102.9	104.4	105.8	107.4	109.7	112.6	114.8	116.2	120.9	120.8	157.2
.315	102.5	103.1	104.5	106.0	107.6	110.1	112.9	114.8	116.6	121.6	120.1	157.4
.400	104.2	103.0	104.0	105.5	107.3	109.6	112.6	114.2	117.0	120.9	117.9	157.7
.500	107.9	104.2	103.9	105.2	107.0	109.6	112.4	113.7	116.6	116.4	115.3	157.2
.630	109.8	108.9	106.8	105.4	106.7	109.2	111.8	112.8	116.0	116.7	113.4	156.1
.800	107.0	109.2	109.9	107.4	106.8	108.7	111.3	111.8	114.8	115.5	111.5	155.6
1.00	105.8	105.5	108.1	108.8	107.4	108.5	110.1	110.5	113.0	113.8	109.6	155.0
1.25	103.6	104.4	105.6	107.0	108.4	108.6	109.7	109.8	111.8	112.5	108.3	153.7
1.60	100.9	103.0	104.5	104.8	106.7	108.1	108.6	108.0	110.3	110.9	106.6	152.9
2.00	99.7	101.1	103.4	104.5	105.6	108.1	108.0	107.1	109.1	110.0	105.9	151.5
2.50	97.9	100.1	102.3	103.5	105.1	106.5	107.7	106.2	108.5	109.5	105.0	150.6
3.15	97.5	99.8	102.1	103.5	104.7	106.7	107.0	106.8	108.6	110.1	105.3	149.8
4.00	97.2	99.2	101.7	103.1	104.7	106.8	107.5	106.9	108.9	110.4	105.8	149.9
5.00	96.3	98.6	101.1	102.6	104.5	106.4	107.4	107.0	109.0	110.8	106.0	150.0
6.30	96.7	98.8	101.8	102.9	105.1	106.7	108.2	107.7	110.9	112.7	107.4	150.0
8.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	151.0
10.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
												0.0

OASPL 116.7 117.0 118.0 118.6 119.8 121.6 123.8 125.8 128.7 131.8 131.4

PNL 125.5 126.3 128.0 129.1 130.4 132.3 133.7 134.1 136.5 138.6 136.2

OAPWL = 168.8

200. SIDELINE

PNL 121.5 123.0 125.2 126.4 127.5 129.0 129.6 128.9 129.5 129.4 123.6

370. SIDELINE

PNL 115.7 117.0 119.2 120.4 121.5 122.9 123.4 122.8 123.2 123.4 117.4

800. SIDELINE

PNL 107.9 109.0 110.8 112.0 113.1 114.4 115.0 114.5 115.1 115.1 109.0

2128. SIDELINE

PNL 96.3 97.5 99.1 99.4 100.6 101.8 103.0 103.0 103.4 103.2 97.4

STAND X206 RIG ID 705308 TEST DATE 03/10/77 SCALE RATIO 12.0/1 RUN NUMBER 20085 CONDITION 8504

				PRIMARY	FAN		PRIMARY	FAN			PRIMARY	FAN		PRIMARY	FAN
TEMP	91°F	32.8°C	AREA	SQFT	0.0	0.0	SQM	0.0	0.0	MASS FLOW LB/S	0.0	0.0	KG/S	0.0	0.0
PRES	30.13IN	1.02BAR	P.R.		1.52	3.18		1.52	3.18	THRUST,IDL LB	99.1	546.6	KN	0.441	2.431
WIND D			TEMP	(R)	1458.7	1265.7	(K)	810.4	703.2	THRUST,MEA LB		0.0	KN	0.0	
WIND V	0MPH	0.0M/S	RHO	LB/FT3	0.030	0.043	KG/M3	0.488	0.685	AREA (MOD) SQFT	0.060	0.080	SQM	0.006	0.007
REL H	20 %		VEL	FPS	1406.3	2082.9	M/S	428.6	634.9	W (MODEL) LB/S	2.3	8.4	KG/S	1.0	3.8

1/3 OCTAVE BAND MODEL JET NOISE DATA 15.0FT RADIUS THEORETICAL DAY SPL - (MODEL)

BAND CENTER FREQ (KHZ)	MICROPHONE ANGLES IN DEGREES 60	70	80	90	100	110	120	130	140	150	160	POWER 1E-12W
.050	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
.063	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
.080	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
.100	89.9	93.1	95.8	95.6	94.1	95.6	97.2	98.9	100.9	105.7	110.2	122.0
.125	91.4	94.6	95.2	96.0	97.1	97.4	96.5	99.3	103.0	106.8	110.5	122.9
.160	96.4	98.7	96.9	97.3	96.6	96.9	97.3	98.4	103.9	109.6	112.9	124.6
.200	95.1	94.9	96.0	97.1	97.6	98.6	100.3	102.1	107.8	113.2	115.6	127.6
.250	96.4	96.2	97.0	98.5	99.1	100.3	101.9	104.6	110.2	115.4	116.1	129.6
.315	98.6	98.3	98.4	100.5	101.5	102.5	104.4	107.9	112.4	118.3	121.7	132.8
.400	100.5	100.4	100.7	101.6	103.7	105.2	107.0	110.9	116.6	121.2	124.5	135.6
.500	101.5	101.3	102.1	102.9	103.6	105.3	107.8	112.0	119.1	123.9	123.3	137.3
.630	102.9	102.4	103.1	104.9	105.4	106.7	109.6	114.3	120.2	124.2	124.4	138.1
.800	102.3	102.8	104.0	105.2	106.6	107.1	109.7	114.9	120.4	124.7	124.5	138.5
1.00	103.0	103.7	104.5	105.4	107.1	109.3	111.5	115.7	120.3	124.4	125.4	138.7
1.25	103.7	103.9	105.5	106.5	107.9	109.3	112.0	116.1	119.6	123.9	124.5	138.3
1.60	103.4	104.3	105.4	106.4	107.7	109.5	112.4	116.4	119.4	124.2	124.3	138.4
2.00	104.4	104.3	105.7	106.9	108.2	110.1	113.3	116.7	119.3	124.4	123.6	138.4
2.50	104.2	104.7	105.9	107.4	108.8	110.8	114.3	117.3	120.3	125.4	123.8	139.2
3.15	105.7	105.1	106.3	107.7	109.0	111.3	114.7	117.5	121.6	125.6	122.0	139.3
4.00	111.4	107.7	106.8	107.6	109.1	111.5	114.9	117.5	122.6	123.4	119.1	138.9
5.00	114.1	112.9	110.2	108.0	109.0	111.3	114.8	117.1	122.7	121.2	116.9	138.6
6.30	111.9	113.6	114.5	111.7	109.9	111.7	114.9	117.2	121.8	119.8	115.1	138.3
8.00	109.2	110.3	113.0	114.3	111.7	111.9	114.7	116.6	120.2	118.5	113.5	137.5
10.0	109.8	110.0	110.5	112.5	113.3	112.4	114.4	115.8	119.0	117.2	111.6	136.7
12.5	108.5	110.2	111.0	110.9	112.1	113.5	113.9	115.0	117.8	116.0	110.3	136.0
16.0	107.7	109.1	110.7	111.1	111.4	113.6	113.8	114.3	116.9	114.9	109.0	135.4
20.0	105.9	107.7	109.2	110.1	110.8	111.8	113.0	112.9	115.8	113.6	107.5	134.2
25.0	104.8	106.4	108.6	109.7	110.4	111.7	112.2	112.2	115.1	112.9	107.1	133.7
31.5	103.9	105.9	108.0	109.3	110.3	111.0	112.4	111.9	115.2	112.8	106.6	133.4
40.0	104.1	106.3	108.3	109.9	110.6	112.0	112.0	112.8	115.8	113.9	107.3	134.0
50.0	104.1	106.3	108.6	110.3	111.1	112.5	113.4	113.6	116.3	114.3	108.0	134.6
63.0	105.8	106.4	108.7	110.4	111.6	113.2	113.9	114.3	117.0	115.3	108.7	135.2
80.0	104.8	107.4	110.0	111.5	113.1	114.5	115.9	116.2	119.6	117.4	110.8	137.1
100.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
OSPL	121.1	121.6	122.7	123.3	123.8	125.2	127.1	129.3	133.3	135.7	135.0	OAPWL = 151.2

STAND X206 RIG ID 705308 TEST DATE 03/10/77 SCALE RATIO 12.0/1 RUN NUMBER 2008 CONDITION 8504

			PRIMARY	FAN		PRIMARY	FAN		PRIMARY	FAN		PRIMARY	FAN
TEMP 77.0(F)	25.0(C)	AREA SQFT	8.640	11.520	SQM	0.803	1.070	MASS FLOW LB/S	326.9	1216.8	KG/S	148.3	551.9
PRES 30.13IN	1.02BAR	P.R.	1.52	3.18		1.52	3.18	THRUST,IDL LB	14276.3	78710.4	KN	63.504	350.120
WIND D		TEMP (R)	1458.7	1265.7	(K)	810.4	703.2	THRUST,MEA LB		0.0	KN	0.0	
WIND V OMPH	0.0M/S	RHO LB/FT3	0.030	0.043	KG/M3	0.488	0.685	AREA (MOD) SQFT	0.060	0.080	SQM	0.006	0.007
REL H 70.0%		VEL FPS	1406.3	2082.9	M/S	428.6	634.9	W (MODEL) LB/S	2.3	8.4	KG/S	1.0	3.8

FAA DAY

1/3 OCTAVE BAND ENGINE JET NOISE DATA 150.0FT RADIUS (SCALED ENGINE)

BAND CENTER FREQ (KHZ) — MICROPHONE ANGLES IN DEGREES

	60	70	80	90	100	110	120	130	140	150	160	POWE
												1E-12
.050	104.5	104.0	104.7	106.5	107.0	108.3	111.2	115.9	121.8	125.8	126.0	
.063	103.9	104.4	105.6	106.8	108.2	108.7	111.3	116.5	122.0	126.3	126.1	161.
.080	104.6	105.3	106.1	107.0	108.7	110.9	113.1	117.3	121.9	126.0	127.0	161.
.100	105.3	105.5	107.1	108.1	109.5	110.9	113.6	117.7	121.2	125.5	126.1	161.
.125	105.0	105.9	107.0	108.0	109.3	111.1	114.0	118.0	121.0	125.8	125.9	161.
.160	105.9	105.8	107.2	108.4	109.7	111.6	114.8	118.2	120.8	125.9	125.1	161.
.200	105.7	106.2	107.4	108.9	110.3	112.3	115.8	118.8	121.8	126.9	125.3	161.
.250	107.2	106.6	107.8	109.2	110.5	112.8	116.2	119.0	123.1	127.1	123.5	162.
.315	112.9	109.2	108.3	109.1	110.6	113.0	116.4	119.0	124.1	124.9	120.6	162.
.400	115.6	113.4	111.7	109.5	110.5	112.8	116.3	118.6	124.2	122.7	118.4	162.
.500	113.3	115.0	115.9	113.1	111.3	113.1	116.3	118.6	123.2	121.2	116.5	161.
.630	110.6	111.7	114.4	115.7	113.1	113.3	116.1	118.0	121.6	119.9	114.9	161.
.800	111.2	111.4	113.9	113.9	114.7	113.8	115.8	117.2	120.4	118.6	113.0	160.
1.00	109.8	111.5	112.3	112.2	113.4	114.8	115.2	116.3	119.1	117.3	111.6	159.
1.25	108.9	110.3	111.9	112.3	112.6	114.8	115.0	115.5	118.1	116.1	110.2	158.
1.60	107.0	108.8	110.3	111.2	111.9	112.9	114.1	114.0	116.9	114.7	108.6	156.
2.00	105.9	107.5	109.7	110.8	111.5	112.8	113.3	113.3	116.2	114.0	108.2	157.
2.50	104.8	106.8	108.9	110.2	111.2	111.9	113.3	112.8	116.1	113.7	107.5	156.
3.15	104.8	107.0	109.0	110.6	111.3	112.7	112.7	113.5	116.5	114.6	108.0	155.
4.00	104.6	106.8	109.1	110.8	111.6	113.0	113.9	114.1	116.8	114.8	108.5	156.
5.00	104.1	106.7	109.0	110.7	112.1	113.5	114.2	114.6	117.3	115.6	109.0	156.
6.30	104.8	107.4	110.0	111.5	113.1	114.5	115.9	116.2	119.6	117.4	110.8	157.
8.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	156.
10.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
												0.0

OSPL 122.3 122.7 123.7 124.3 124.8 126.1 128.2 130.3 134.3 136.5 135.2

PNL 131.4 132.8 134.4 135.5 136.3 137.7 139.1 140.2 143.6 143.0 139.2

OAPWL = 173.7

200. SIDELINE

PNL 127.5 129.5 131.5 132.8 133.4 134.3 135.0 134.8 136.4 133.7 126.6

370. SIDELINE

PNL 121.7 123.4 125.5 126.7 127.3 128.1 128.7 128.5 130.0 127.7 120.5

800. SIDELINE

PNL 113.9 115.2 117.0 118.2 118.7 119.5 120.0 119.7 121.7 119.5 112.2

2128. SIDELINE

PNL 102.5 103.6 105.3 105.8 105.7 106.3 107.3 107.7 109.8 107.9 100.7

ORIGINAL PAGE IS OF POOR QUALITY

STAND X206 RIG ID 070530 TEST DATE 03/10/77 SCALE RATIO 12.0/1 RUN NUMBER 20085 CONDITION 8505

				PRIMARY	FAN		PRIMARY	FAN			PRIMARY	FAN		PRIMARY	FAN
TEMP	90°F	32.2°C	AREA SQFT	0.0	0.0	SQM	0.0	0.0	MASS FLOW	LB/S	0.0	0.0	KG/S	0.0	0.0
PRES	30.14IN	1.02BAR	P.R.	1.52	1.78		1.52	1.78	THRUST,IDL	LB	96.3	221.9	KN	0.428	0.987
WIND D			TEMP (R)	1466.7	1973.7	(K)	814.8	1096.5	THRUST,MEA	LB		0.0	KN	0.0	
WIND V	0MPH	0.0M/S	RHO LB/FT3	0.030	0.023	KG/M3	0.486	0.373	AREA (MOD)	SQFT	0.060	0.080	SQM	0.006	0.007
REL H	17%		VEL FPS	1416.3	1905.5	M/S	431.7	580.6	W (MODEL)	LB/S	2.2	3.8	KG/S	1.0	1.7

1/3 OCTAVE BAND MODEL JET NOISE DATA 15.0FT RADIUS THEORETICAL DAY SPL - (MODEL)

BAND CENTER FREQ (KHZ)	MICROPHONE ANGLES IN DEGREES 60	70	80	90	100	110	120	130	140	150	160	PCW 1E-12
.050	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.
.063	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.
.080	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.
.100	84.1	87.1	89.8	90.6	90.2	91.0	92.8	95.2	96.6	100.5	104.1	116.
.125	84.5	88.4	88.9	90.4	91.9	92.2	91.6	95.9	99.0	102.0	104.8	118.
.160	89.4	91.9	90.4	90.6	89.9	91.1	91.9	94.4	99.7	104.1	107.1	119.
.200	88.6	88.3	88.9	90.5	91.5	92.7	94.7	97.8	103.9	108.1	109.7	122.
.250	89.8	90.4	91.0	92.9	93.8	95.1	96.7	100.6	105.9	110.3	112.1	124.
.315	92.4	91.8	92.7	94.7	95.6	96.9	99.1	103.7	107.6	112.5	114.9	126.
.400	94.5	94.5	95.4	96.2	97.9	100.1	102.4	107.1	111.6	115.7	117.4	130.
.500	96.7	95.9	96.4	98.0	98.4	100.4	103.2	107.9	113.7	117.3	115.9	131.
.630	97.6	96.7	97.8	99.3	100.0	101.9	104.9	110.1	114.5	117.8	116.6	132.
.800	97.1	98.1	98.7	99.9	100.9	102.7	105.2	110.5	114.2	117.5	1.6.4	131.
1.00	98.3	97.9	99.1	100.2	101.8	104.1	106.7	110.9	113.4	116.3	116.6	131.
1.25	97.5	98.8	100.0	100.9	102.2	104.4	107.1	110.7	112.4	114.9	114.9	130.
1.60	97.3	98.5	99.7	101.0	102.4	104.7	107.6	110.7	111.4	113.6	113.9	130.
2.00	97.5	98.5	99.9	101.7	103.0	105.3	108.2	110.4	110.5	112.7	112.7	129.
2.50	97.7	98.8	100.2	102.1	103.7	106.0	108.7	110.4	110.2	113.1	113.8	130.
3.15	98.1	99.1	100.3	102.3	103.7	106.6	109.1	110.1	110.1	113.3	112.7	130.
4.00	97.8	99.0	100.3	102.2	104.0	106.8	109.2	109.9	110.2	113.5	112.0	130.
5.00	97.4	98.3	99.7	101.9	103.7	106.4	108.7	109.2	109.7	112.8	110.1	129.
6.30	96.8	97.8	99.2	101.6	103.4	106.4	108.5	108.8	109.8	111.6	107.9	128.
8.00	95.5	97.3	98.9	101.0	103.0	106.0	107.7	107.9	109.3	109.7	106.1	128.
10.0	94.2	96.4	98.2	100.4	102.4	105.4	107.0	106.9	108.3	108.0	104.2	127.
12.5	93.8	95.3	97.2	99.8	101.7	104.6	106.0	105.7	106.7	106.6	102.4	126.
16.0	92.8	94.7	96.8	99.0	101.4	104.0	105.0	104.5	105.2	105.0	101.2	124.
20.0	91.2	93.5	95.2	97.4	99.7	102.3	103.6	102.7	103.1	103.4	99.1	123.
25.0	90.4	92.2	94.5	97.3	99.2	102.0	102.2	101.5	101.8	102.4	98.7	122.
31.5	89.5	92.2	94.3	96.7	98.7	101.6	101.9	100.9	101.6	101.9	97.9	121.
40.0	89.8	92.2	94.5	96.9	98.5	101.5	101.1	101.1	101.3	102.1	98.5	121.
50.0	89.5	91.9	94.0	96.6	98.2	100.9	101.4	100.8	100.9	102.0	98.6	121.
63.0	89.3	91.4	93.9	96.5	98.6	100.6	101.3	100.4	100.4	102.1	98.7	121.
80.0	89.7	92.0	94.6	96.7	99.0	100.9	101.9	101.0	102.1	103.4	100.1	122.
100.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.
OSPL	109.7	110.7	112.0	113.9	115.5	118.0	120.1	122.0	124.1	127.0	126.6	OAPWL = 142.

STAND X206 RIG ID 070530 TEST DATE 03/10/77 SCALE RATIO 12.0/1 RUN NUMBER 2008 CONDITION 8505

			PRIMARY	FAN		PRIMARY	FAN				PRIMARY	FAN		PRIMARY	FAN
TEMP 77.0(F)	25.0(C)	AREA SQFT	8.640	11.520	SQM	0.803	1.070	MASS FLOW	LB/S	315.4	540.0	KG/S	143.0	244.9
PRES 30.14IN	1.02BAR	P.R.	1.52	1.78		1.52	1.78	THRUST,IDL	LB	13871.1	31955.8	KN	61.701	142.146
WIND D		TEMP (R)	1466.7	1973.7	(K)	814.8	1096.5	THRUST,MEA	LB		0.0	KN	0.0	
WIND V 0MPH	0.0M/S	RHO LB/FT3	0.030	0.023	KG/M3	0.486	0.373	AREA (MOD)	SQFT	0.060	0.080	SQM	0.006	0.007
REL H 70.0%		VEL FPS	1416.3	1905.5	M/S	431.7	580.8	W (MODEL)	LB/S	2.2	3.8	KG/S	1.0	1.7

FAN DAY 1/3 OCTAVE BAND ENGINE JET NOISE DATA 150.0FT RADIUS (SCALED ENGINE)

BAND CENTER FREQ (KHZ)	MICROPHONE ANGLES IN DEGREES 60	70	80	90	100	110	120	130	140	150	160	POWE 1E-12
.050	99.2	98.3	99.4	100.9	101.6	103.5	106.5	111.7	116.1	119.4	118.2	
.063	98.7	99.7	100.3	101.5	102.5	104.3	106.8	112.1	115.8	119.1	118.0	155.
.080	99.9	99.5	100.7	101.8	103.4	105.7	108.3	112.5	115.0	117.9	118.2	155.
.100	99.1	100.4	101.6	102.5	103.8	106.0	108.7	112.3	114.0	116.5	116.5	154.
.125	98.9	100.1	101.3	102.6	104.0	106.3	109.2	112.3	113.0	115.2	115.5	153.
.160	99.0	100.0	101.4	103.2	104.5	106.8	109.7	111.9	112.0	114.2	114.2	153.
.200	99.2	100.3	101.7	103.6	105.2	107.5	110.2	111.9	111.7	114.6	115.3	152.
.250	99.6	100.6	101.8	103.8	105.2	108.1	110.6	111.6	111.6	114.8	114.2	153.
.315	99.3	100.5	101.8	103.7	105.5	108.3	110.7	111.4	111.7	115.0	113.5	153.
.400	98.9	99.8	101.2	103.4	105.2	107.9	110.2	110.7	111.2	114.3	111.6	153.
.500	98.2	99.2	100.6	103.0	104.8	107.8	109.9	110.2	111.2	113.0	109.3	152.
.630	96.9	98.7	100.3	102.4	104.4	107.4	109.1	109.3	110.7	111.1	107.5	152.
.800	95.6	97.8	99.6	101.8	103.8	106.8	108.4	108.3	109.7	109.4	105.6	151.
1.00	95.1	96.6	98.5	101.1	103.0	105.9	107.3	107.0	108.0	107.9	103.7	150.
1.25	94.0	95.9	98.0	100.2	102.6	105.2	106.2	105.7	106.4	106.2	102.4	148.
1.60	92.3	94.6	96.3	98.5	100.8	103.4	104.7	103.8	104.2	104.5	100.2	147.
2.00	91.5	93.3	95.6	98.4	100.3	103.1	103.3	102.6	102.9	103.5	99.8	146.
2.50	90.4	93.1	95.2	97.6	99.6	101.9	102.8	101.8	102.5	102.8	98.8	145.
3.15	90.5	92.9	95.2	97.6	99.2	102.2	101.8	101.8	102.0	102.8	99.2	144.
4.00	90.0	92.4	94.5	97.1	98.7	101.4	101.9	101.3	101.4	102.5	99.1	144.
5.00	89.6	91.7	94.2	96.8	98.9	100.9	101.6	100.7	100.7	102.4	99.0	143.
6.30	89.7	92.0	94.6	96.7	99.0	100.9	101.9	101.0	102.1	103.4	100.1	143.
8.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	143.
10.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.
												0.

OAPWL = 164.

OSPL	110.5	111.6	113.0	114.9	116.5	119.1	121.2	123.0	124.6	127.1	126.3
PNL	118.2	120.0	121.9	124.1	125.9	128.6	129.6	130.0	130.7	132.3	130.2

200. SIDELINE

PNL	114.2	116.7	119.1	121.4	123.0	125.3	125.5	124.8	123.8	123.3	117.5

370. SIDELINE

PNL	108.1	110.7	113.1	115.5	117.0	119.3	119.5	118.7	117.7	117.3	111.4

800. SIDELINE

PNL	100.0	102.4	104.8	107.2	108.8	110.9	111.5	110.8	109.8	109.1	103.1

2128. SIDELINE

PNL	88.7	91.0	93.2	95.5	97.1	99.2	100.2	99.6	98.3	97.4	91.4

STAND X206 RIG ID 070530 TEST DATE 03/10/77 SCALE RATIO 12.0/1 RUN NUMBER 20085 CONDITION 8506

				PRIMARY	FAN		PRIMARY	FAN			PRIMARY	FAN		PRIMARY	FAN
TEMP	90°F	32.2°C	AREA	SQFT 0.0	0.0	SQM	0.0	0.0	MASS FLOW	LB/S	0.0	0.0	KG/S	0.0	0.0
PRES	30.14IN	1.02BAR	P.R.	1.51	2.48		1.51	2.48	THRUST,IDL	LB	94.8	392.6	KN	0.422	1.746
WIND D			TEMP	(R) 1444.7	1940.7	(K)	802.6	1078.2	THRUST,MEA	LB		0.0	KN	0.0	
WIND V	0MPH	0.0M/S	RHO	LB/FT3 0.031	0.026	KG/M3	0.493	0.411	AREA (MOD)	SQFT	0.060	0.080	SQM	0.006	0.007
REL H	17%		VEL	FPS 1394.4	2328.3	M/S	425.0	709.7	W (MODEL)	LB/S	2.2	5.4	KG/S	1.0	2.5

1/3 OCTAVE BAND MODEL JET NOISE DATA 15.0FT RADIUS THEORETICAL DAY SPL - (MODEL)

BAND CENTER FREQ (KHZ)	MICROPHONE ANGLES IN DEGREES 60	70	80	90	100	110	120	130	140	150	160	POWER 1E-12
.050	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
.063	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
.080	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
.100	88.3	91.5	93.6	94.3	93.9	95.1	96.7	99.0	100.3	104.5	108.5	121.0
.125	89.2	92.8	93.1	94.8	96.4	96.4	95.2	99.6	103.1	106.3	109.4	122.3
.160	94.7	97.1	94.7	95.2	94.8	95.5	96.1	98.3	103.8	108.5	112.0	123.8
.200	93.4	92.8	93.0	94.6	95.6	96.8	98.8	101.7	107.6	112.5	114.3	126.7
.250	94.5	94.6	94.8	96.7	97.8	99.4	100.8	104.1	109.6	114.6	116.8	128.1
.315	96.0	95.7	96.8	98.6	99.8	100.9	102.9	107.5	112.0	117.3	120.1	131.7
.400	98.5	96.8	97.1	99.8	101.7	103.8	106.4	111.1	116.0	120.7	122.2	134.0
.500	100.7	99.9	100.3	101.6	102.3	104.2	107.2	112.1	116.3	122.4	120.9	136.0
.630	101.8	101.3	101.5	103.3	103.8	105.8	109.0	114.4	119.2	122.9	121.6	136.4
.800	100.9	102.1	102.6	104.0	104.9	106.4	109.1	114.9	119.1	122.7	121.5	136.8
1.00	102.7	102.5	103.0	104.2	105.9	108.5	111.2	115.9	118.8	122.3	122.4	137.0
1.25	102.1	103.4	104.0	105.3	106.4	108.7	112.0	116.1	118.0	121.8	121.2	136.8
1.60	102.2	103.6	104.1	105.4	106.7	109.2	112.8	116.3	117.5	121.8	121.2	136.8
2.00	103.0	103.7	104.6	106.2	107.4	110.0	113.9	116.5	118.0	122.2	120.9	136.9
2.50	102.9	103.8	104.7	106.5	108.2	110.8	114.8	116.9	119.3	122.9	121.1	137.1
3.15	103.0	104.0	104.8	106.7	108.5	111.8	115.3	117.1	120.6	123.0	118.7	137.6
4.00	102.4	103.8	104.8	106.9	108.9	112.2	115.8	117.7	122.0	121.3	116.2	138.0
5.00	102.2	103.4	104.5	106.8	108.9	112.2	115.7	117.7	121.6	119.3	114.1	137.4
6.30	102.6	103.2	104.5	106.8	108.9	112.5	115.6	118.1	120.5	117.6	112.4	136.8
8.00	103.8	104.2	104.6	106.7	108.9	112.5	115.0	117.7	118.9	116.3	110.9	136.0
10.0	101.8	104.8	105.1	106.4	108.6	112.1	114.5	117.2	117.9	114.9	109.2	135.3
12.5	100.3	102.9	104.9	106.8	108.3	111.7	113.9	116.2	116.6	113.8	107.6	134.4
16.0	99.4	101.7	103.9	106.5	108.3	111.3	113.1	115.2	115.7	112.7	106.7	133.6
20.0	97.7	100.7	102.5	104.8	107.4	110.6	111.9	113.7	114.4	111.5	105.0	132.5
25.0	96.9	99.4	101.8	104.8	106.8	110.2	111.1	113.0	113.7	111.1	104.9	131.9
31.5	96.4	99.4	101.9	104.4	106.9	109.5	111.2	113.2	114.0	110.9	104.3	131.9
40.0	96.5	99.5	102.0	104.6	106.7	110.3	111.0	113.9	114.3	111.5	104.8	132.1
50.0	96.4	99.2	101.6	104.5	106.6	110.2	111.9	114.1	114.7	111.8	105.2	132.4
63.0	98.2	98.8	101.5	104.4	107.1	110.4	112.2	114.7	115.1	112.2	105.7	132.7
80.0	96.6	99.3	102.3	104.8	107.9	111.2	113.8	116.4	117.6	114.2	107.1	134.1
100.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
OSPL	115.0	116.2	117.3	119.3	121.2	124.2	126.9	129.7	132.1	133.7	132.3	OAPWL = 149.

STAND X206 RIG ID 070530 TEST DATE 03/10/77 SCALE RATIO 12.0/1 RUN NUMBER 2008 CONDITION 8506

			PRIMARY	FAN		PRIMARY	FAN			PRIMARY	FAN		PRIMARY	FAN
TEMP 77.0(F) 25.0(C)	AREA	SQFT	8.640	11.520	SQM	0.803	1.070	MASS FLOW	LB/S	315.4	781.9	KG/S	143.0	354.7
PRES 30.14IN 1.02BAR	P.R.		1.51	2.48		1.51	2.48	THRUST,IDL	LB	13656.5	36538.1	KN	60.747	251.493
WIND D	TEMP	(R)	1444.7	1940.7	(K)	802.6	1078.2	THRUST,MEA	LB		0.0	KN	0.0	
WIND V 0MPH 0.0M/S	RHO	LB/FT3	0.031	0.026	KG/M3	0.493	0.411	AREA (MOD)	SQFT	0.060	0.080	SQM	0.006	0.007
RLL H 70.0%	VEL	FPS	1394.4	2328.3	M/S	425.0	709.7	W (MODEL)	LB/S	2.2	5.4	KG/S	1.0	2.5

FAA DAY

1/3 OCTAVE BAND ENGINE JET NOISE DATA 150.0FT RADIUS (SCALED ENGINE)

BAND CENTER FREQ (KHZ) — MICROPHONE ANGLES IN DEGREES

	60	70	80	90	100	110	120	130	140	150	160	POWER
.050	103.4	102.9	103.1	104.9	105.4	107.4	110.6	116.0	120.8	124.5	123.2	1E-12
.063	102.5	103.7	104.2	105.6	106.5	108.0	110.7	116.5	120.7	124.3	123.1	
.080	104.3	104.1	104.6	105.8	107.5	110.1	112.8	117.5	120.4	123.9	124.0	160.0
.100	103.7	105.0	105.6	106.9	108.0	110.3	113.6	117.7	119.6	123.4	122.8	159.9
.125	103.8	105.2	105.7	107.0	108.3	110.8	114.4	117.9	119.1	123.4	122.8	160.1
.160	104.5	105.2	106.1	107.7	108.9	111.5	115.4	118.0	119.5	123.7	122.4	159.7
.200	104.4	105.3	106.2	108.0	109.7	112.3	116.3	118.4	120.8	124.4	122.6	159.8
.250	104.5	105.5	106.3	108.2	110.0	113.3	116.8	118.6	122.1	124.5	120.2	160.1
.315	103.9	105.3	106.3	108.4	110.4	113.7	117.3	119.2	123.5	122.8	117.7	160.8
.400	103.7	104.9	106.0	108.3	110.4	113.7	117.2	119.2	123.1	120.8	115.6	161.1
.500	104.2	104.6	105.9	108.2	110.3	113.9	117.0	119.5	121.9	119.0	113.8	161.1
.630	105.2	105.6	106.0	108.1	110.3	113.9	116.4	119.1	120.3	117.7	112.3	160.3
.800	103.2	106.2	106.5	107.8	110.0	113.5	115.9	118.6	119.3	116.3	110.6	159.8
1.00	101.6	104.2	106.2	108.1	109.6	113.0	115.2	117.5	117.9	115.1	108.9	159.0
1.25	100.6	102.9	105.1	107.7	109.5	112.5	114.3	116.4	116.9	113.9	107.9	158.3
1.60	98.8	101.8	103.6	105.9	108.5	111.1	113.6	114.8	115.5	112.6	106.1	157.3
2.00	98.0	100.5	102.9	105.9	107.9	111.3	112.2	114.1	114.8	112.2	106.0	156.5
2.50	97.3	100.3	102.8	105.3	107.8	110.4	112.1	114.1	114.9	111.8	105.2	155.8
3.15	97.2	100.2	102.7	105.3	107.4	111.0	111.7	114.6	115.0	112.2	105.5	154.4
4.00	96.9	99.7	102.1	105.0	107.1	110.7	112.4	114.6	115.2	112.3	105.7	154.2
5.00	96.5	99.1	101.8	104.7	107.4	110.7	112.5	115.0	115.4	112.5	106.0	154.4
6.30	96.6	99.3	102.3	104.8	107.9	111.2	113.8	116.4	117.6	114.2	107.3	154.5
8.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	154.7
10.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	156.1
												0.0
												0.0

OSPL 115.9 117.2 118.3 120.3 122.2 125.3 128.1 130.8 133.1 134.3 132.3 OAPWL = 172.1
PNL 124.4 126.6 128.5 130.9 132.9 136.2 138.3 140.7 142.1 140.5 136.4

200. SIDELINE
PNL 120.4 123.3 125.7 128.2 130.1 132.9 134.2 135.4 135.0 131.4 123.8

370. SIDELINE
PNL 114.3 117.3 119.6 122.1 124.0 126.8 127.9 129.2 128.6 125.4 117.7

800. SIDELINE
PNL 106.1 108.9 111.3 113.8 115.7 118.3 119.4 120.4 120.4 117.2 109.4

2128. SIDELINE
PNL 94.5 97.0 98.8 101.2 103.0 105.6 107.4 108.3 108.6 105.6 97.9

20085F TAPE P7339 NASA VSCE (NAS3-20061) CONFIG. D

15.2049

STAND X206 RIG ID 070530 TEST DATE 03/10/77 SCALE RATIO 12.0/1 RUN NUMBER 20085 CONDITION 8507

					PRIMARY	FAN		PRIMARY	FAN			PRIMARY	FAN		PRIMARY	FAN
TEMI	90.0°F	-32.2°C	AREA	SQFT	0.0	0.0	SQM	0.0	0.0	MASS FLOW	LB/S	0.0	0.0	KG/S	0.0	0.0
PRES	30.14IN	1.02BAR	P.R.		1.52	4.05		1.52	4.05	THRUST,IDL	LB	100.3	459.3	KN	0.446	2.043
WIND D			TEMP	(R)	1432.7	1962.7	(K)	795.9	1090.4	THRUST,MEA	LB		0.0	KN	0.0	
WIND V	0MPH	0.0M/S	RHO	LB/FT3	0.031	0.029	KG/M3	0.498	0.457	AREA (MOD)	SQFT	0.060	0.080	SQM	0.006	0.007
REL H	17 %		VEL	FPS	1398.6	2827.9	M/S	426.3	862.0	W (MODEL)	LB/S	2.3	5.2	KG/S	1.0	2.4

1/3 OCTAVE BAND MODEL JET NOISE DATA 15.0FT RADIUS

THEORETICAL DAY SPL - (MODEL)

BAND CENTER FREQ (KHZ)	MICROPHONE ANGLES IN DEGREES 60	70	80	90	100	110	120	130	140	150	160	POWER IE-12
.050	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
.063	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
.080	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
.100	94.8	98.4	100.1	99.6	99.4	100.7	102.3	104.5	106.1	111.0	115.4	127.2
.125	96.4	99.9	99.9	101.0	102.5	101.6	101.2	104.9	108.2	112.3	116.0	128.2
.160	101.6	103.8	101.1	101.8	101.5	101.5	102.3	103.6	109.0	114.4	118.3	129.8
.200	100.5	99.5	99.9	100.8	101.6	102.8	104.9	107.3	113.3	118.3	120.9	132.7
.250	101.8	101.7	101.4	102.5	103.9	105.1	106.8	109.9	115.3	121.0	123.5	135.2
.315	101.6	100.9	102.4	104.7	106.0	106.9	108.5	113.4	117.4	123.5	126.5	137.7
.400	105.0	105.1	104.5	104.8	107.2	109.5	112.2	116.4	121.8	126.4	128.9	140.7
.500	106.3	105.6	105.4	106.5	107.3	109.4	112.5	117.8	124.8	128.9	127.4	142.3
.630	106.0	106.4	106.8	108.4	108.9	110.8	114.4	121.6	126.1	130.0	128.0	143.6
.800	106.2	107.5	108.1	109.0	110.3	111.6	115.0	121.5	127.0	130.2	127.6	144.0
1.00	107.1	107.9	108.3	109.3	111.3	113.5	116.8	122.7	127.7	130.4	128.0	144.3
1.25	107.1	108.5	109.0	110.1	111.8	114.2	118.1	123.1	127.9	130.4	126.4	144.6
1.60	106.4	108.3	108.8	110.2	111.8	114.2	119.0	123.5	128.0	130.2	125.2	144.8
2.00	107.3	107.9	108.7	110.5	112.2	115.1	120.2	123.9	128.6	128.7	122.5	144.2
2.50	109.3	108.7	109.1	111.0	112.9	115.9	121.6	125.0	129.2	127.0	121.1	144.4
3.15	112.7	112.2	110.5	111.7	113.5	117.0	122.6	125.9	128.7	125.0	118.8	144.3
4.00	112.3	115.3	114.6	112.8	114.2	117.7	123.2	127.0	127.2	123.5	117.3	144.2
5.00	110.7	112.8	115.0	115.2	114.7	118.0	122.9	126.9	125.1	121.8	115.3	143.5
6.30	112.7	112.1	113.1	116.5	115.8	118.4	122.8	126.2	124.3	120.5	113.9	143.0
8.00	112.9	114.1	113.2	114.8	117.3	118.5	122.3	124.5	123.1	119.0	112.2	142.1
10.0	111.4	114.3	114.4	114.6	116.7	118.5	121.6	123.5	122.3	117.8	110.8	141.5
12.5	111.0	113.1	114.1	115.2	115.7	118.2	120.7	122.6	121.0	116.7	109.5	140.7
16.0	110.4	112.7	113.8	115.0	115.9	116.0	120.1	121.9	120.3	116.0	108.6	140.2
20.0	109.1	111.8	112.7	113.8	114.9	116.5	119.0	120.7	119.2	114.9	107.1	139.6
25.0	108.6	110.9	112.3	114.1	114.9	116.6	118.4	120.3	118.5	114.3	107.0	138.7
31.5	108.3	110.9	112.6	113.9	114.8	116.4	118.7	120.4	118.8	114.3	106.5	138.7
40.0	108.7	111.6	113.0	114.7	115.3	117.3	118.9	121.2	119.1	115.2	107.3	139.3
50.0	108.9	111.6	113.2	114.9	115.6	117.5	119.9	121.4	119.5	115.5	107.5	139.7
63.0	108.9	111.9	113.8	115.5	116.8	118.3	120.6	122.1	119.6	115.9	108.1	140.4
80.0	110.1	113.1	115.1	116.7	118.2	119.8	122.5	123.4	122.0	117.9	109.9	142.0
100.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
OSPL	123.7	125.3	126.1	127.3	128.4	130.5	134.1	137.2	139.0	139.8	137.4	OAPWL = 156.5

STAND X206 RIG ID 070530 TEST DATE 03/10/77 SCALE RATIO 12.0/1 RUN NUMBER 2008 CONDITION 8507

				PRIMARY	FAN		PRIMARY	FAN				PRIMARY	FAN		PRIMARY	FAN
TEMP	77.0(F)	25.0(C)	AREA SQFT	8.640	11.520	SQM	0.803	1.070	MASS FLOW	LB/S	332.6	753.1	KG/S	150.9	341.6
PRES	30.14IN	1.02BAR	P.R.		1.52	4.05		1.52	4.05	THRUST,IDL	LB	14448.2	66142.2	KN	64.268	294.214
WIND D			TEMP (R)	1432.7	1962.7	(K)	795.9	1090.4	THRUST,MEA	LB		0.0		KN	0.0	
WIND V	0MPH	0.0M/S	RHO LB/FT3	0.031	0.029	KG/M3	0.496	0.457	AREA (MOD)	SQFT	0.060	0.080	SQM	0.006	0.007
REL H	70.6%		VEL FPS	1398.6	2827.9	M/S	426.3	862.0	W (MODEL)	LB/S	2.3	5.2	KG/S	1.0	2.4

FAA DAY 1/3 OCTAVE BAND ENGINE JET NOISE DATA 150.0FT RADIUS (SCALED ENGINE)

BAND CENTER FREQ (KHZ)	MICROPHONE ANGLES IN DEGREES 60	70	80	90	100	110	120	130	140	150	160	POWER 1E-12W
.050	107.6	108.0	108.4	110.0	110.5	112.4	116.0	122.6	127.7	131.6	129.6	166.8
.063	107.8	109.1	109.7	110.6	111.9	113.2	116.6	123.1	128.6	131.8	129.2	167.1
.080	108.7	109.5	109.9	110.9	112.9	115.1	118.4	124.3	129.3	132.0	129.6	167.7
.100	108.7	110.1	110.6	111.7	113.4	115.8	119.7	124.7	129.5	132.0	128.0	167.8
.125	108.0	109.9	110.4	111.8	113.4	115.8	120.6	125.1	129.6	131.8	126.8	167.7
.160	108.8	109.4	110.2	112.0	113.7	116.6	121.7	125.4	130.1	130.2	124.0	167.4
.200	110.8	110.2	110.6	112.5	114.4	117.4	123.1	126.5	130.7	128.5	122.6	167.5
.250	115.2	113.7	112.0	113.2	115.0	118.5	124.1	127.4	130.2	126.5	120.3	167.4
.315	113.8	116.8	116.1	114.3	115.7	119.2	124.7	128.5	128.7	125.0	118.8	167.3
.400	112.2	114.3	116.5	116.7	116.2	119.5	124.4	128.4	126.6	123.3	116.8	166.2
.500	114.1	113.5	114.5	117.9	117.2	119.8	124.2	127.6	125.7	121.9	115.3	166.0
.630	114.3	115.5	114.6	116.2	118.7	119.9	123.7	125.9	124.5	120.4	113.6	165.5
.800	112.8	115.7	115.8	116.0	118.1	119.9	123.0	124.9	123.7	119.2	112.2	164.4
1.00	112.3	114.4	115.4	116.5	117.0	119.5	122.0	123.9	122.3	118.0	110.8	163.6
1.25	111.6	113.9	115.0	116.2	117.1	119.2	121.3	123.1	121.5	117.2	109.8	163.0
1.60	110.2	112.9	113.8	114.9	116.0	117.6	120.1	121.8	120.3	116.0	108.2	161.7
2.00	109.7	112.0	113.4	115.2	116.0	117.7	119.5	121.4	119.6	115.4	108.1	161.3
2.50	109.2	111.8	113.5	114.8	115.7	117.3	119.6	121.3	119.7	115.2	107.4	161.2
3.15	109.4	112.3	113.7	115.4	116.0	118.0	119.6	121.9	119.8	115.9	108.0	161.6
4.00	109.4	112.1	113.7	115.4	116.1	118.0	120.4	121.9	120.0	116.0	108.0	161.7
5.00	109.2	112.2	114.1	115.8	117.1	118.6	120.9	122.4	119.9	116.2	108.4	162.2
6.30	110.1	113.1	115.1	116.7	118.2	119.8	122.5	123.4	122.0	117.9	109.9	163.5
8.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

OAPWL = 174.0

OSPL	124.7	126.3	127.0	128.3	129.3	131.5	135.2	138.4	140.2	140.5	136.6	
PNL	135.1	137.3	138.5	139.9	140.9	142.9	145.8	148.1	147.5	144.7	138.6	
				200. SIDELINE								
PNL	131.0	134.0	135.6	137.2	138.0	139.6	141.7	142.8	140.5	135.5	126.1	
				370. SIDELINE								
PNL	124.9	127.9	129.5	131.1	131.9	133.4	135.4	136.6	134.3	129.5	120.0	
				800. SIDELINE								
PNL	116.2	119.4	121.0	122.6	123.3	124.8	126.7	128.0	126.3	121.4	111.7	
				2128. SIDELINE								
PNL	104.0	106.8	108.1	109.5	110.2	111.7	114.5	116.3	114.8	110.2	100.5	

STAND X206 RIG ID 705308 TEST DATE 03/10/77 SCALE RATIO 12.0/1 RUN NUMBER 20085 CONDITION 8508

				PRIMARY	FAN		PRIMARY	FAN			PRIMARY	FAN		PRIMARY	FAN
TEMP	93°F	33.9°C	AREA	SQFT 0.0	0.0	SQM	0.0	0.0	MASS FLOW	LB/S	0.0	0.0	KG/S	0.0	0.0
PRES	30.13IN	1.02BAR	P.R.	2.00	1.30		2.00	1.30	THRUST,IDL	LB	176.1	90.1	KN	0.783	0.401
WIND D			TEMP	(R) 1451.7	1267.7	(K)	806.5	704.3	THRUST,MEA	LB		0.0	KN	0.0	
WIND V	0MPH	0.0M/S	RHO	LB/FT3 0.033	0.034	KG/M3	0.526	0.541	AREA (MOD)	SQFT	0.060	0.080	SQM	0.006	0.007
REL H	19 %		VEL	FPS 1777.7	1044.2	M/S	541.8	318.3	W (MODEL)	LB/S	3.2	2.8	KG/S	1.4	1.3

1/3 OCTAVE BAND MODEL JET NOISE DATA 15.0FT RADIUS THEORETICAL DAY SPL - (MODEL)

BAND CENTER FREQ (KHZ)	MICROPHONE ANGLES IN DEGREES 60	70	80	90	100	110	120	130	140	150	160	PGR 1E-12
.050	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.
.063	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.
.080	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.
.100	80.4	83.6	86.3	86.8	85.7	87.3	89.2	91.3	93.1	97.2	101.1	115.
.125	81.2	84.8	85.8	87.1	88.7	89.4	88.4	92.4	96.0	99.0	101.8	114.
.160	87.4	90.0	88.3	88.5	87.2	88.4	89.4	91.2	96.7	101.4	104.7	1.6.
.200	85.8	85.5	86.5	87.6	88.8	90.2	92.2	94.4	100.5	105.3	107.6	119.
.250	86.8	87.0	88.0	90.0	91.0	92.4	94.0	97.0	102.6	107.7	110.1	122.
.315	89.4	88.5	90.6	92.3	93.4	94.7	96.9	100.8	105.1	110.6	114.0	125.
.400	92.8	93.2	93.6	93.8	96.3	98.3	100.3	103.9	109.1	113.6	117.0	128.
.500	95.9	94.3	94.9	96.3	96.9	98.5	101.2	105.1	112.0	116.7	116.7	130.
.630	96.7	95.4	96.0	98.1	98.6	100.4	103.0	107.9	114.1	117.9	117.9	131.
.800	95.7	97.0	97.9	98.9	100.2	100.9	103.3	109.0	115.6	119.3	117.9	133.
1.00	97.5	97.1	97.7	98.7	100.7	103.3	105.4	110.6	117.0	119.4	118.2	133.
1.25	97.0	98.5	99.0	99.6	101.7	103.4	106.1	111.2	117.2	119.2	116.7	133.
1.60	96.8	97.9	98.5	99.6	101.0	103.0	105.7	110.9	116.7	118.4	115.5	132.
2.00	96.7	96.6	98.0	99.1	100.5	102.7	105.6	110.3	115.5	116.5	112.6	131.
2.50	95.1	95.8	97.2	98.3	100.2	102.4	105.8	109.9	114.0	114.6	110.0	130.
3.15	93.9	94.6	96.6	97.7	99.6	102.3	105.5	109.1	111.7	111.7	104.5	128.
4.00	92.8	93.9	95.6	97.1	99.0	101.6	104.9	107.9	109.2	107.3	98.9	126.
5.00	92.1	92.9	94.6	96.1	98.2	100.6	104.1	106.3	106.4	102.4	93.7	124.
6.30	91.4	92.3	94.0	95.6	97.6	100.0	103.2	104.6	103.8	98.1	89.9	122.
8.00	89.8	91.3	93.2	94.6	96.6	99.1	101.9	102.6	100.9	94.5	87.0	120.
10.0	88.3	90.2	92.0	93.6	95.6	97.9	100.3	100.3	98.4	92.0	85.5	119.
12.5	87.2	88.7	90.7	92.5	94.3	96.8	98.6	98.0	95.5	90.1	84.0	117.
16.0	86.0	87.8	90.0	91.3	93.5	95.4	97.0	96.1	93.8	88.7	82.5	115.
20.0	84.0	85.9	87.8	89.4	91.4	93.2	94.7	93.8	91.7	87.3	81.5	113.
25.0	82.9	84.3	86.8	88.6	90.5	92.4	93.1	92.4	90.2	86.6	82.2	112.
31.5	81.3	83.5	85.9	87.5	89.7	90.9	92.1	90.9	89.5	86.1	81.3	111.
40.0	81.3	83.5	85.8	87.7	89.2	91.1	91.5	91.3	89.4	87.3	82.8	111.
50.0	81.0	83.2	85.5	87.3	88.9	91.0	91.5	91.2	89.9	88.7	84.4	111.
63.0	80.4	82.8	85.1	86.8	88.7	90.6	91.3	91.4	90.8	90.9	86.7	111.
80.0	81.2	83.3	86.0	87.2	89.5	91.0	92.3	92.2	93.7	94.4	89.9	113.
100.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.
OSPL	107.1	107.6	108.7	109.9	111.6	113.6	116.3	120.3	125.3	127.6	126.5	OAPWL = 142.

STAND X206 RIG ID 705308 TEST DATE 03/10/77 SCALE RATIO 12.0/1 RUN NUMBER 2008 CONDITION 8508

					PRIMARY	FAN		PRIMARY	FAN				PRIMARY	FAN		PRIMARY	FAN
TEMP	77.0(F)	25.0(C)	AREA	SQFT	8.640	11.520	SQM	0.803	1.070	MASS FLOW	LB/S	459.4	400.3	KG/S	208.4	181.6
PRES	30.13IN	1.026AK	P.R.		2.00	1.30		2.00	1.30	THRUST,IDL	LB	25359.7	12981.5	KN	112.800	57.744
WIND D			TEMP	(R)	1451.7	1267.7	(K)	806.5	704.3	THRUST,MEA	LB		0.0	KN	0.0	
WIND V	0MPH	0.0M/S	RHO	LB/FT3	0.033	0.034	KG/M3	0.526	0.541	AREA (MOD)	SQFT	0.060	0.080	SQM	0.006	0.007
REL H	70.0%		VEL	FPS	1777.7	1044.2	M/S	541.8	318.3	W (MODEL)	LB/S	3.2	2.8	KG/S	1.4	1.3

FAA DAY 1/3 OCTAVE BAND ENGINE JET NOISE DATA 150.0FT RADIUS (SCALED ENGINE)

BAND CENTER FREQ (KHZ)	MICROPHONE ANGLES IN DEGREES 60	70	80	90	100	110	120	130	140	150	160	POWER 1E-12W
.050	98.3	97.0	97.6	99.7	100.2	102.0	104.6	109.5	115.7	119.5	119.5	155.0
.063	97.3	98.6	99.5	100.5	101.8	102.5	104.9	110.6	117.2	120.9	119.5	156.1
.080	99.1	98.7	99.3	100.3	102.3	104.9	107.0	112.2	118.6	121.0	119.8	156.4
.100	98.6	100.1	100.6	101.2	103.3	105.0	107.7	112.8	118.8	120.8	118.3	156.8
.125	98.4	99.5	100.1	101.2	102.6	104.6	107.3	112.5	118.3	120.0	117.1	156.1
.160	98.2	98.1	99.5	100.6	102.0	104.2	107.1	111.8	117.0	118.0	114.1	154.6
.200	96.6	97.3	98.7	99.8	101.7	103.9	107.3	111.4	115.5	116.1	111.5	153.3
.250	95.4	96.1	98.1	99.2	101.1	103.8	107.0	110.6	113.2	113.2	106.0	151.4
.315	94.3	95.4	97.1	98.6	100.5	103.1	106.4	109.4	110.7	108.8	100.4	149.3
.400	93.6	94.4	96.1	97.6	99.7	102.1	105.6	107.8	107.9	103.9	95.2	147.3
.500	92.8	93.7	95.4	97.0	99.0	101.4	104.6	106.2	105.2	99.5	91.3	145.4
.630	91.2	92.7	94.6	96.0	98.0	100.5	103.3	104.0	102.3	95.9	88.4	143.4
.800	89.7	91.6	93.4	95.0	97.0	99.3	101.7	101.7	99.8	93.4	86.9	142.1
1.00	88.5	90.0	92.0	93.8	95.6	98.1	99.9	99.3	96.8	91.4	85.3	140.3
1.25	87.2	89.0	91.2	92.5	94.7	96.6	98.2	97.3	95.0	89.9	83.7	138.8
1.60	85.1	87.0	88.9	90.5	92.5	94.3	95.8	94.9	92.8	88.4	82.6	136.5
2.00	84.0	85.4	87.9	89.7	91.6	93.5	94.2	93.5	91.3	87.7	83.3	135.3
2.50	82.2	84.4	86.8	88.4	90.6	91.8	93.0	91.8	90.4	87.0	82.2	134.0
3.15	82.0	84.2	86.5	88.4	89.9	91.8	92.2	92.0	90.1	88.0	83.5	133.7
4.00	81.5	83.7	86.0	87.8	89.4	91.5	92.0	91.7	90.4	89.2	84.9	133.5
5.00	80.7	83.1	85.4	87.1	89.0	90.9	91.6	91.7	91.1	91.2	87.0	133.5
6.30	81.2	83.3	86.0	87.2	89.5	91.0	92.3	92.2	93.7	94.4	89.9	134.2
8.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

OAPWL = 164.7

OSPL	107.8	108.5	109.6	110.8	112.6	114.7	117.4	121.5	126.4	128.4	126.4	
PNL	112.3	113.6	115.5	117.0	118.8	120.8	123.2	125.4	127.8	127.9	124.3	

200. SIDELINE

PNL	108.4	110.4	112.7	114.4	116.0	117.6	119.3	120.4	121.3	119.1	112.0	

370. SIDELINE

PNL	102.7	104.6	106.8	108.5	110.1	111.8	113.6	114.7	115.6	113.4	106.2	

800. SIDELINE

PNL	95.0	97.0	99.2	100.7	102.5	104.2	106.0	107.2	108.1	105.9	98.6	

2128. SIDELINE

PNL	84.0	86.1	88.3	89.9	91.6	93.4	95.1	96.7	97.9	95.8	88.2	

20085F TAPE P7338 NASA VSCE (NAS3-20061) CONFIG. D

15.2049

STAND X206 RIG ID 705308 TEST DATE 03/10/77 SCALE RATIO 12.0/1 RUN NUMBER 20085 CONDITION 8509

				PRIMARY	FAN		PRIMARY	FAN		PRIMARY	FAN		PRIMARY	FAN
TEMP	93°F	33.9°C	AREA SQFT	0.0	0.0	SQM	0.0	0.0	MASS FLOW - LB/S	0.0	0.0	KG/S	0.0	0.0
PRES	30.13IN	1.02BAR	P.R.	1.99	1.78		1.99	1.78	THRUST,IDL LB	172.9	217.1	KN	0.769	0.966
WIND D			TEMP (R)	1454.7	1257.7	(K)	808.2	698.7	THRUST,MEA LB		0.0	KN	0.0	
WIND V	0MPH	0.0M/S	RHO LB/FT3	0.033	0.037	KG/M3	0.525	0.592	AREA (MOD) SQFT	0.060	0.060	SQM	0.006	0.007
REL H	19 %		VEL FPS	1772.8	1519.6	M/S	540.4	463.2	W (MODEL) LB/S	3.1	4.6	KG/S	1.4	2.1

1/3 OCTAVE BAND MODEL JET NOISE DATA 15.0FT RADIUS

THEORETICAL DAY SPL - (MODEL)

BAND CENTER FREQ (KHZ)	MICROPHONE ANGLES IN DEGREES 60	70	80	90	100	110	120	130	140	150	160	POWER 1E-12W
.050	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
.063	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
.080	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
.100	84.1	87.5	90.0	90.4	89.2	90.6	92.4	94.5	96.4	100.5	104.9	117.0
.125	84.9	88.9	89.8	90.4	92.2	92.6	91.9	95.5	99.1	102.3	105.5	118.3
.160	90.8	93.2	91.6	91.7	90.5	91.7	92.4	94.1	99.9	104.5	108.1	119.9
.200	89.4	89.0	90.2	91.5	92.5	93.8	95.6	97.6	103.6	108.5	110.8	122.9
.250	90.3	90.7	91.4	93.0	94.5	96.2	97.3	100.6	105.6	110.8	113.5	125.2
.315	92.2	91.5	93.4	95.5	96.7	97.8	99.8	103.9	108.2	113.5	116.8	128.1
.400	95.7	95.8	96.3	96.8	99.3	101.3	103.0	107.1	112.4	116.8	120.6	131.4
.500	97.7	96.9	97.6	98.6	99.6	101.2	103.7	108.2	115.1	119.5	119.0	133.1
.630	98.8	98.0	98.7	100.7	101.4	102.9	105.9	111.2	117.3	120.8	120.0	134.7
.800	97.9	99.1	100.0	101.2	102.8	103.7	106.1	112.1	116.5	121.8	119.8	135.6
1.00	99.8	99.7	100.4	101.6	103.6	106.1	108.3	113.6	119.9	121.9	120.3	136.3
1.25	99.7	100.5	101.7	102.8	104.6	106.2	108.7	113.5	119.6	121.5	119.0	136.0
1.60	98.9	100.3	101.2	102.3	103.9	106.0	108.5	113.3	118.9	120.9	118.0	136.0
2.00	98.9	99.2	100.8	101.9	103.4	105.5	108.5	112.5	117.0	118.4	115.3	135.4
2.50	97.7	98.6	100.0	101.4	103.1	105.5	108.6	112.1	115.3	116.3	114.0	133.5
3.15	96.9	97.9	99.5	100.9	103.0	105.3	108.4	111.3	113.3	113.3	110.4	132.1
4.00	96.2	97.4	98.9	100.5	102.7	104.9	107.7	110.2	111.0	109.8	107.7	130.5
5.00	95.7	96.6	98.1	99.7	101.9	104.1	106.9	108.7	108.5	106.8	104.5	128.8
6.30	95.3	96.0	97.7	99.4	101.5	103.8	106.4	107.4	106.6	104.5	102.2	127.2
8.00	93.8	95.2	97.0	98.6	100.8	102.9	105.2	105.6	104.4	102.4	99.8	126.0
10.0	92.4	94.4	96.1	97.8	99.8	101.9	104.0	103.9	102.7	100.6	97.4	124.6
12.5	91.5	93.1	95.0	96.9	98.7	101.1	102.7	102.2	100.9	98.7	95.4	123.3
16.0	90.3	92.3	94.5	95.9	97.9	100.1	101.5	100.9	99.4	97.2	93.6	121.9
20.0	88.5	90.5	92.6	94.2	96.4	98.1	99.5	98.7	97.5	95.1	91.4	120.6
25.0	87.5	89.2	91.6	93.5	95.6	97.8	98.4	97.6	96.2	94.3	90.9	118.9
31.5	86.1	88.5	90.9	92.6	94.8	96.2	97.6	96.4	95.3	93.2	89.5	118.0
40.0	86.4	88.8	91.0	92.9	94.5	96.6	97.0	96.7	95.4	93.7	90.2	116.9
50.0	86.1	88.7	90.9	92.8	94.5	96.7	97.5	96.7	95.4	94.1	91.3	117.0
63.0	85.8	88.3	90.6	92.7	94.8	96.4	97.2	96.5	95.8	95.2	92.5	117.1
80.0	86.7	89.0	91.8	93.3	95.5	97.0	98.3	97.4	96.6	98.0	93.8	117.1
100.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	118.4
												0.0
OSPL	109.8	110.5	111.8	113.1	114.9	116.9	119.3	122.9	127.8	130.2	129.1	OAPWL = 144.9

STAND X206 RIG ID 705308 TEST DATE 03/10/77 SCALE RATIO 12.0/1 RUN NUMBER 2008 CONDITION 8509

				PRIMARY	FAN		PRIMARY	FAN			PRIMARY	FAN		PRIMARY	FAN
TEMP	77.0(F)	25.0(C)	AREA SQFT	8.640	11.520	SQM	0.803	1.070	MASS FLOW	LB/S	452.2	662.4	KG/S	205.1	300.5
PRES	30.13IN	1.02BAR	P.R.	1.99	1.78		1.99	1.78	THRUST,IDL	LB	24894.7	31266.4	KN	110.736	139.082
WIND D			TEMP (R)	1454.7	1257.7	(K)	808.2	698.7	THRUST,MEA	LB		0.0	KN	0.0	
WIND V	0MPH	0.0M/S	RHO LB/FT3	0.033	0.037	KG/M3	0.525	0.592	AREA (MOD)	SQFT	0.060	0.060	SQM	0.006	0.007
REL H	70.0%		VEL FPS	1772.8	1519.6	M/S	540.4	463.2	W (MODEL)	LB/S	3.1	4.6	KG/S	1.4	2.1

FAA DAY

1/3 OCTAVE BAND ENGINE JET NOISE DATA 150.0FT RADIUS (SCALED ENGINE)

BAND CENTER FREQ (KHZ)	MICROPHONE ANGLES IN DEGREES 60	70	80	90	100	110	120	130	140	150	160	POWER 1E-12
.050	100.4	99.6	100.3	102.3	103.0	104.5	107.5	112.8	118.9	122.4	121.6	
.063	99.5	100.7	101.6	102.8	104.4	105.3	107.7	113.7	120.1	123.4	121.4	157.1
.080	101.4	101.3	102.0	103.2	105.2	107.7	109.9	115.2	121.5	123.5	121.9	158.7
.100	101.3	102.1	103.3	104.4	106.2	107.8	110.3	115.1	121.2	123.1	120.6	159.1
.125	100.5	101.9	102.8	103.9	105.5	107.6	110.1	114.9	120.5	122.5	119.6	159.4
.160	100.4	100.7	102.3	103.4	104.9	107.0	110.6	114.0	118.5	119.9	116.8	158.5
.200	99.2	100.1	101.5	102.9	104.6	107.0	110.1	113.6	116.8	117.8	115.5	158.6
.250	98.4	99.4	101.0	102.4	104.5	106.8	109.9	112.8	114.8	114.8	111.9	158.3
.315	97.7	98.9	100.4	102.0	104.2	106.4	109.2	111.7	112.5	111.3	109.2	158.5
.400	97.2	98.1	99.6	101.2	103.4	105.6	108.4	110.2	110.0	108.3	106.0	157.9
.500	96.7	97.4	99.1	100.8	102.9	105.2	107.8	108.8	108.6	105.9	103.6	156.2
.630	95.2	96.6	98.4	100.0	102.2	104.3	106.6	107.0	105.8	103.8	101.2	154.6
.800	93.8	95.8	97.5	99.2	101.2	103.3	105.4	105.3	104.1	102.0	98.8	147.6
1.00	92.8	94.4	96.5	98.2	100.0	102.4	104.0	103.5	102.2	100.0	96.7	146.2
1.25	91.5	93.5	95.7	97.1	99.1	101.3	102.7	102.1	100.6	98.4	94.8	144.8
1.60	89.6	91.6	93.7	95.3	97.5	99.2	100.6	99.8	98.6	96.2	92.5	143.6
2.00	88.6	90.5	92.7	94.6	96.7	98.9	99.5	98.7	97.3	95.4	92.0	141.6
2.50	87.0	89.4	91.8	93.5	95.7	97.1	98.5	97.3	96.2	94.1	90.4	140.6
3.15	87.1	89.5	91.7	93.6	95.2	97.3	97.7	97.4	96.1	94.4	90.9	139.4
4.00	86.6	89.2	91.4	93.3	95.0	97.2	98.0	97.2	95.9	94.6	91.8	139.2
5.00	86.1	88.6	90.9	93.0	95.1	96.7	97.5	96.8	96.1	95.5	92.8	139.2
6.30	86.7	89.0	91.8	93.3	95.5	97.6	98.3	97.4	98.6	98.0	93.8	138.0
8.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	139.9
10.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
												0.0

OASPL 110.5 111.4 112.7 114.1 115.9 117.9 120.5 124.1 128.8 130.9 128.8 OAPWL = 167.3

PNL 116.2 117.9 119.8 121.5 123.3 125.3 126.9 128.6 130.7 131.3 128.6

200. SIDELINE

PNL 112.2 114.6 117.0 118.8 120.5 122.1 123.0 123.6 124.1 122.5 116.3

370. SIDELINE

PNL 106.4 108.7 111.0 112.8 114.5 116.1 117.2 117.8 118.4 116.7 110.4

800. SIDELINE

PNL 98.6 100.8 103.0 104.7 106.5 108.1 109.5 110.2 110.9 109.2 102.6

2128. SIDELINE

PNL 87.5 89.7 91.9 93.7 95.5 97.1 98.5 99.5 100.5 98.8 92.0

ORIGINAL PAGE IS OF POOR QUALITY

STAND X206 RIG ID 705308 TEST DATE 03/10/77 SCALE RATIO 12.0/1 RUN NUMBER 20085 CONDITION 8510

					PRIMARY	FAN		PRIMARY	FAN			PRIMARY	FAN		PRIMARY	FA
TEMP	92°F	33.3°C	AREA	SQFT	0.0	0.0	SQM	0.0	0.0	MASS FLOW	LB/S	0.0	0.0	KG/S	0.0	0.
PRES	30.13IN	1.02BAR	P.R.		2.00	2.49		2.00	2.49	THRUST,IDL	LB	174.7	381.6	KN	0.777	1.69
WIND D			TEMP	(R)	1461.7	1267.7	(K)	812.1	704.3	THRUST,MEA	LB		0.0	KN	0.0	
WIND V	0MPH	0.0M/S	RHO	LB/FT3	0.033	0.040	KG/M3	0.523	0.641	AREA (MOD)	SQFT	0.060	0.080	SQM	0.006	0.00
REL H	19 %		VEL	FPS	1786.0	1878.6	M/S	544.4	572.6	W (MODEL)	LB/S	3.1	6.5	KG/S	1.4	3.

1/3 OCTAVE BAND MODEL JET NOISE DATA 15.0FT RADIUS THEORETICAL DAY SPL - (MODEL)

BAND CENTER FREQ (KHZ)	MICROPHONE ANGLES IN DEGREES 60	70	80	90	100	110	120	130	140	150	160	PO 1E-
.050	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
.063	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
.080	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
.100	88.1	91.4	93.8	93.7	92.5	94.4	95.7	97.6	99.6	104.3	108.7	
.125	89.8	93.3	93.7	94.8	95.8	96.2	95.4	98.6	102.1	105.6	109.1	12
.160	94.8	97.1	95.3	95.6	94.3	95.3	95.8	97.2	102.8	107.8	111.6	12
.200	93.9	93.6	94.6	95.8	96.2	97.6	99.0	100.8	106.7	111.8	114.4	12
.250	95.1	94.5	95.5	97.2	98.1	99.6	100.7	103.3	108.9	114.5	117.0	12
.315	95.5	94.9	97.1	99.1	100.2	101.2	103.0	106.9	111.2	116.8	120.3	13
.400	99.4	99.2	99.4	100.3	102.5	104.3	106.2	110.1	115.6	120.3	123.5	13
.500	100.8	100.1	100.8	101.9	103.6	104.4	106.7	111.3	118.6	123.2	122.4	13
.630	101.8	101.2	102.2	103.8	104.4	106.0	108.9	114.4	120.6	124.2	123.2	13
.800	101.4	102.3	103.4	104.5	105.9	106.6	109.1	115.0	121.7	125.1	123.4	13
1.00	102.6	103.0	103.8	104.8	106.9	109.0	111.1	116.3	122.8	125.5	124.3	13
1.25	103.5	103.8	105.1	106.2	107.8	109.3	111.8	116.4	122.6	125.5	123.7	13
1.60	102.9	104.2	105.2	106.1	107.4	109.4	111.9	116.1	121.9	125.7	123.6	13
2.00	103.6	103.5	104.8	105.9	107.2	109.3	112.0	115.7	120.5	124.6	122.2	13
2.50	102.8	103.2	104.6	106.0	107.4	109.5	112.5	115.8	119.8	124.3	122.1	13
3.15	102.9	103.1	104.6	105.7	107.4	109.7	112.5	115.5	119.0	123.2	120.0	13
4.00	102.3	102.8	104.0	105.3	107.2	109.6	112.6	114.8	118.3	121.5	117.9	13
5.00	101.9	102.3	103.5	104.9	106.8	109.1	112.0	114.0	117.5	119.6	115.5	13
6.30	101.5	102.0	103.2	104.7	106.7	109.0	111.9	113.3	116.8	118.1	113.8	13
8.00	100.1	101.2	103.0	104.4	106.2	108.5	111.2	112.3	115.6	116.4	112.0	13
10.0	98.8	100.6	102.2	104.0	105.6	108.1	110.4	111.2	114.4	115.1	110.1	13
12.5	98.3	99.7	101.6	103.2	105.0	107.7	109.6	110.0	112.6	113.6	108.4	13
16.0	97.4	99.2	101.3	102.6	104.6	106.9	108.8	109.0	111.6	112.6	107.1	13
20.0	95.8	97.7	99.8	101.5	103.4	105.4	107.4	107.4	110.1	111.2	105.6	12
25.0	94.9	96.5	99.1	101.1	102.8	105.3	106.4	106.5	109.1	110.4	105.1	12
31.5	94.0	96.2	98.6	100.4	102.5	104.3	106.2	105.6	108.7	110.0	104.3	12
40.0	94.3	96.4	98.8	101.1	102.4	105.0	105.8	106.4	109.3	111.0	105.0	12
50.0	94.3	96.3	98.9	100.8	102.6	105.2	106.4	106.7	109.5	111.5	105.6	12
63.0	94.0	96.2	98.8	100.8	102.7	105.1	106.6	106.9	110.0	112.3	105.9	12
80.0	94.8	97.1	99.8	101.7	103.7	105.8	107.8	108.1	112.3	114.4	107.9	13
100.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
OSPL	114.5	115.1	116.5	117.9	119.5	121.5	124.0	126.9	131.9	135.3	133.8	

OAPWL = 149

STAND X206 RIG ID 705308 TEST DATE 03/10/77 SCALE RATIO 12.0/1 RUN NUMBER 2006 CONDITION 8510

			PRIMARY	FAN		PRIMARY	FAN		PRIMARY	FAN		PRIMARY	FAN
TEMP 77.0(F) 25.0(C)	AREA	SQFT	8.640	11.520	SQM	0.803	1.070	MASS FLOW LB/S	453.6	941.8	KG/S	205.8	427.2
PRES 30.13IN 1.02BAR	P.R.		2.60	2.49		2.00	2.49	THRUST,IDL LB	25159.5	54944.7	KN	111.914	244.402
WIND D	TEMP	(R)	1461.7	1267.7	(K)	812.1	704.3	THRUST,MEA LB		0.0	KN	0.0	
WIND V 0MPH 0.0M/S	RHO	LB/FT3	0.033	0.040	KG/M3	0.523	0.641	AREA (MOD) SQFT	0.060	0.080	SQM	0.006	0.007
REL H 70.0%	VEL	FPS	1786.0	1878.6	M/S	544.4	572.6	W (MODEL) LB/S	3.1	6.5	KG/S	1.4	3.0

FAA DAY

1/3 OCTAVE BAND ENGINE JET NOISE DATA 150.0FT RADIUS (SCALED ENGINE)

BAND CENTER FREQ (KHZ)	MICROPHONE ANGLES IN DEGREES 60	70	80	90	100	110	120	130	140	150	160	POW IE-1
.050	103.4	102.8	103.8	105.4	106.0	107.6	110.5	116.0	122.2	125.8	124.8	
.063	103.0	103.9	105.0	106.1	107.5	108.2	110.7	116.6	123.3	126.7	125.0	161.
.080	104.2	104.6	105.4	106.4	108.5	110.6	112.7	117.9	124.4	127.1	125.9	162.
.100	105.1	105.4	106.7	107.8	109.4	110.9	113.4	118.0	124.2	127.1	125.3	162.
.125	104.5	105.8	106.8	107.7	109.0	111.0	113.5	117.7	123.5	127.3	125.2	162.
.160	105.1	105.0	106.3	107.4	108.7	110.8	113.5	117.2	122.0	126.1	123.7	162.
.200	104.3	104.7	106.1	107.5	108.9	111.0	114.0	117.3	121.3	125.8	123.6	161.
.250	104.4	104.6	106.1	107.2	108.9	111.2	114.0	117.0	120.5	124.7	121.5	161.
.315	103.8	104.3	105.5	106.8	108.7	111.1	114.1	116.3	119.8	123.0	119.4	16..
.400	105.4	103.8	105.0	106.4	108.3	110.6	113.5	115.5	119.0	121.1	117.0	160.
.500	102.9	103.4	104.6	106.1	108.1	110.4	113.3	114.7	118.2	119.5	115.2	159.
.630	101.5	102.6	104.4	105.8	107.6	109.9	112.6	113.7	117.0	117.8	113.4	158.
.800	100.2	102.0	103.6	105.4	107.0	109.5	111.8	112.6	115.8	116.5	111.5	157.
1.00	99.6	101.0	102.9	104.5	106.3	109.0	110.9	111.3	113.9	114.9	109.7	156.
1.25	98.6	100.4	102.5	103.8	105.8	108.1	110.0	110.2	112.8	113.8	108.3	154.
1.60	96.9	98.8	100.9	102.6	104.5	106.5	108.5	108.5	111.2	112.3	106.7	153.
2.00	96.0	97.6	100.2	102.2	103.9	106.4	107.5	107.6	110.2	111.5	106.2	152.
2.50	94.9	97.1	99.5	101.3	103.4	105.2	107.1	106.5	109.6	110.9	105.2	151.
3.15	95.0	97.1	99.5	101.8	103.1	105.7	106.5	107.1	110.0	111.7	105.7	150.
4.00	94.8	96.8	99.4	101.3	103.1	105.7	106.9	107.2	110.0	112.0	106.1	147.
5.00	94.3	96.5	99.1	101.1	103.0	105.4	106.9	107.2	110.3	112.6	106.2	149.
6.30	94.8	97.1	99.8	101.7	103.7	105.8	107.8	108.1	112.3	114.4	107.9	150.
8.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	150.
10.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	151.
												0.
												0.

OSPL 115.4 116.1 117.5 118.8 120.5 122.6 125.1 128.1 133.0 136.2 134.0
PNL 122.9 124.3 126.3 128.1 129.7 132.1 133.9 135.2 138.8 141.1 137.5

200. SIDELINE

PNL 118.8 121.1 123.5 125.4 126.9 128.8 129.8 129.9 131.8 132.0 124.9

370. SIDELINE

PNL 112.8 115.1 117.5 119.5 120.9 122.8 123.7 123.8 125.7 126.0 118.8

800. SIDELINE

PNL 104.8 106.8 109.2 111.2 112.6 114.4 115.4 115.8 117.8 118.0 110.6

2128. SIDELINE

PNL 93.6 95.4 97.6 99.2 100.8 102.5 104.0 104.6 106.5 106.6 99.2

CAPWL = 172.

20085F TAPE P7338 NASA VSCE (NAS3-20061) CONFIG. D

STAND X206 RIG ID 705308 TEST DATE 03/10/77 SCALE RATIO 12.0/1 RUN NUMBER 20085 CONDITION 6511 15.2049

					PRIMARY	FAN		PRIMARY	FAN				PRIMARY	FAN		PRIMARY	FA
TEMP	90°F	32.20C	AREA	SQFT	0.0	0.0	SQM	0.0	0.0	MASS FLOW	LB/S	0.0	0.0	KG/S	0.0	0.
PRES	30.131N	1.02BAR	P.R.		1.98	3.17		1.98	3.17	THRUST,IDL	LB	172.6	542.7	KN	0.768	2.41
WIND D			TEMP	(R)	1453.7	1256.7	(K)	807.6	698.2	THRUST,MEA	LB		0.0	KN	0.0	
WIND V	0MPH	0.0M/S	RHO	LB/FT3	0.033	0.043	KG/M3	0.525	0.689	AREA (MOD)	SQFT	0.060	0.080	SQM	0.006	0.007
REL H	20%		VEL	FPS	1770.2	2072.8	M/S	539.6	631.8	W (MODEL)	LB/S	3.1	8.4	KG/S	1.4	3.

1/3 OCTAVE BAND MODEL JET NOISE DATA 15.0FT RADIUS THEORETICAL DAY SPL - (MODEL)

BAND CENTER FREQ (KHZ)	MICROPHONE ANGLES IN DEGREES 60	70	80	90	100	110	120	130	140	150	160
.050	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
.063	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
.080	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
.100	91.0	94.0	96.3	95.9	95.1	97.0	98.1	100.0	102.0	106.8	111.6
.125	92.8	96.0	96.4	96.9	98.1	98.2	97.8	100.7	104.1	107.8	111.7
.160	98.0	99.9	98.6	98.4	97.2	97.8	98.5	99.6	105.1	110.3	114.4
.200	96.8	96.0	97.2	98.1	98.7	99.9	101.6	103.4	108.8	114.0	117.0
.250	98.1	97.7	98.5	99.4	100.7	102.1	103.1	105.8	111.0	116.7	119.6
.315	98.2	97.3	99.7	101.4	102.7	103.8	105.4	109.3	113.4	119.4	123.1
.400	102.1	101.6	101.9	102.6	104.6	106.7	108.3	112.6	117.8	122.7	126.0
.500	102.9	102.6	103.3	103.7	104.8	106.7	108.9	113.3	120.7	125.6	124.9
.630	104.3	103.6	104.3	106.1	106.6	108.1	111.0	115.9	122.6	126.5	125.8
.800	103.7	104.4	105.5	106.7	108.2	108.6	111.1	117.0	123.7	127.6	126.1
1.00	104.6	105.4	106.0	106.7	109.1	111.1	113.1	118.0	124.5	128.0	127.3
1.25	105.8	105.6	107.3	108.1	109.9	111.4	114.0	118.1	124.2	128.4	126.6
1.60	105.1	106.1	107.0	108.0	109.4	111.3	114.1	118.0	123.8	128.9	126.2
2.00	105.0	105.8	106.9	108.0	109.7	111.4	114.5	117.9	123.8	129.0	124.6
2.50	106.7	105.6	106.7	107.9	109.5	111.6	115.0	118.2	123.8	127.6	123.3
3.15	107.8	107.6	107.5	107.8	109.4	111.9	115.2	118.2	124.0	125.9	120.6
4.00	106.9	107.9	109.3	109.1	109.8	112.2	115.6	118.1	124.3	123.8	118.9
5.00	106.2	106.3	108.1	109.4	110.3	111.9	115.3	117.7	123.5	122.1	116.5
6.30	106.9	106.5	107.3	108.7	110.9	112.5	115.4	117.6	122.3	120.7	114.8
8.00	105.9	106.5	107.8	108.2	110.0	112.7	115.1	116.9	120.8	118.2	113.1
10.0	105.4	106.4	107.6	108.5	109.6	112.3	114.6	116.2	119.9	118.0	111.4
12.5	105.3	106.3	107.5	108.2	109.4	111.9	114.2	115.2	118.4	116.6	110.0
16.0	104.9	106.0	107.7	108.0	109.2	111.2	113.5	114.3	117.5	115.6	109.0
20.0	103.2	105.0	106.6	107.5	108.5	110.0	112.0	112.8	116.3	114.3	107.3
25.0	102.3	103.7	106.2	107.4	108.4	110.1	111.2	112.2	115.7	113.8	107.1
31.5	101.5	103.4	105.7	107.1	108.4	109.6	111.3	111.7	115.6	113.4	106.3
40.0	101.8	103.8	106.1	107.6	108.5	110.4	111.2	112.7	116.2	114.5	107.0
50.0	101.8	103.9	106.3	107.9	109.2	111.2	112.3	113.4	116.9	114.9	108.1
63.0	101.5	103.7	106.4	108.1	109.8	111.5	112.7	114.1	117.7	115.9	108.7
80.0	102.6	104.8	107.7	109.1	111.1	112.7	114.7	115.9	120.3	118.0	110.5
100.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
OSPL	118.8	119.3	120.7	121.7	123.1	125.0	127.4	130.1	135.5	138.2	136.2

OAPWL = 152.7

STAND X206 RIG ID 705308 TEST DATE 03/10/77 SCALE RATIO 12.0/1 RUN NUMBER 2006 CONDITION 8511

			PRIMARY	FAN		PRIMARY	FAN			PRIMARY	FAN		PRIMARY	FAN
TEMP 77.0(F) 25.0(C)	AREA	SQFT	8.640	11.520	SQM	0.803	1.070	MASS FLOW	LB/S	452.2	1213.9	KG/S	205.1	550.6
PRES 30.13IN 1.025BAR	P.R.		1.98	3.17		1.98	3.17	THRUST,IDL	LB	24858.2	78143.8	KN	110.574	347.599
WIND D	TEMP	(R)	1453.7	1256.7	(K)	807.6	698.2	THRUST,MEA	LB		0.0	KN	0.0	
WIND V OMPH 0.0M/S	RHO	LB/FT3	0.033	0.043	KG/M3	0.525	0.689	AREA (MOD)	SQFT	0.060	0.080	SQM	0.006	0.007
REL H 70.0%	VEL	FPS	1770.2	2072.6	M/S	539.6	631.8	W (MODEL)	LB/S	3.1	8.4	KG/S	1.4	3.8

FAN DAY

1/3 OCTAVE BAND ENGINE JET NOISE DATA 150.0FT RADIUS (SCALED ENGINE)

BAND CENTER FREQ (KHZ)	MICROPHONE ANGLES IN DEGREES 60	70	80	90	100	110	120	130	140	150	160	POWE 1E-12
.050	105.9	105.2	105.9	107.7	108.2	109.7	112.6	117.5	124.2	128.1	127.4	
.063	105.3	106.0	107.1	108.3	109.8	110.2	112.7	118.6	125.3	129.2	127.7	163.
.080	106.2	107.0	107.6	108.3	110.7	112.7	114.7	119.6	126.1	129.6	128.9	164.
.100	107.4	107.2	108.9	109.7	111.5	113.0	115.6	119.7	125.8	130.0	128.2	165.
.125	106.7	107.7	108.6	109.6	111.0	112.9	115.7	119.6	125.4	130.5	127.8	165.
.160	107.5	107.3	108.4	109.5	111.2	112.9	116.0	119.4	125.3	130.5	126.1	165.
.200	108.2	107.1	108.2	109.4	111.0	113.1	116.5	119.7	125.3	129.1	124.8	165.
.250	109.3	109.1	109.0	109.3	110.9	113.4	116.7	119.7	125.5	127.4	122.1	164.
.315	108.4	109.4	110.8	110.6	111.3	113.7	117.1	119.6	125.8	125.3	120.4	163.
.400	107.7	107.8	109.6	110.9	111.8	113.4	116.8	119.2	125.0	123.6	118.0	162.
.500	108.3	107.9	108.7	110.1	112.3	113.9	116.8	119.0	123.7	122.1	116.2	162.
.630	107.3	107.9	109.2	109.6	111.4	114.1	116.5	118.3	122.2	120.6	114.5	161.
.800	106.8	107.8	109.0	109.9	111.0	113.7	116.0	117.6	121.3	119.4	112.8	160.
1.00	106.6	107.6	108.8	109.5	110.7	113.2	115.5	116.5	119.7	117.9	111.3	159.
1.25	106.1	107.2	108.9	109.2	110.4	112.4	114.7	115.5	118.7	116.8	110.2	158.
1.60	104.3	106.1	107.7	108.6	109.6	111.1	113.1	113.9	117.4	115.4	108.4	157.
2.00	103.4	104.8	107.3	108.5	109.5	111.2	112.3	113.3	116.8	114.9	108.2	156.
2.50	102.4	104.3	106.6	108.0	109.3	110.5	112.2	112.6	116.5	114.3	107.2	155.
3.15	102.5	104.5	106.8	108.3	109.2	111.1	111.9	113.4	116.9	115.2	107.7	155.
4.00	102.3	104.4	106.8	108.4	109.7	111.7	112.8	113.9	117.4	115.4	108.6	155.
5.00	101.8	104.0	106.7	108.4	110.1	111.8	113.0	114.4	118.0	116.2	109.0	156.
6.30	102.6	104.8	107.7	109.1	111.1	112.7	114.7	115.9	120.3	118.0	110.5	156.
8.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	156.
10.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
												0.0

OASPWL = 175.3

OSPL	119.7	120.3	121.7	122.6	124.1	126.0	128.5	131.2	136.6	139.2	136.4	
PNL	129.1	130.4	132.3	133.6	134.9	136.8	138.6	140.4	144.9	144.3	139.2	

200. SIDELINE

PNL	125.1	127.2	129.5	130.9	132.1	133.5	134.5	135.1	137.7	135.1	126.7	

370. SIDELINE

PNL	119.0	121.1	123.4	124.8	125.9	127.3	128.3	128.8	131.3	129.1	120.6	

800. SIDELINE

PNL	110.5	112.6	115.0	116.4	117.4	118.8	119.7	120.1	123.1	121.1	112.4	

2128. SIDELINE

PNL	98.6	100.3	102.4	103.7	104.8	106.0	107.6	108.4	111.4	109.7	101.1	

STAND X206 RIG ID 070530 TEST DATE 03/10/77 SCALE RATIO 12.0/1 RUN NUMBER 20065 CONDITION 8512

				PRIMARY	FAN		PRIMARY	FAN			PRIMARY	FAN		PRIMARY	FAN
TEMP	89°F 31.7°C	AREA	SQFT	0.0	0.0	SQM	0.0	0.0	MASS FLOW	LB/S	0.0	0.0	KG/S	0.0	0.0
PRES	30.141N 1.02BAR	P.R.		2.00	1.79		2.00	1.79	THRUST,IDL	LB	176.5	251.2	KN	0.784	1.028
WIND D		TEMP	(R)	1456.7	1973.7	(K)	809.3	1096.5	THRUST,MEA	LB		0.0	KN	0.0	
WIND V	0MPH 0.0M/S	RHO	LB/FT3	0.033	0.023	KG/M3	0.524	0.373	AREA (MOD)	SQFT	0.060	0.060	SQM	0.006	0.007
REL H	17 90	VEL	FPS	1779.2	1913.6	M/S	542.3	583.3	W (MODEL)	LB/S	3.2	3.9	KG/S	1.4	1.8

1/3 OCTAVE BAND MODEL JET NOISE DATA 15.0FT RADIUS

THEORETICAL DAY SPL - (MODEL)

BAND CENTER FREQ (KHZ)	MICROPHONE ANGLES IN DEGREES 60	70	80	90	100	110	120	130	140	150	160	POWE 1E-12
.050	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.
.063	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.
.080	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.
.100	86.4	89.9	91.3	92.4	91.9	92.2	94.7	97.0	98.4	102.8	106.7	115.
.125	87.3	91.4	91.6	93.2	94.7	94.5	93.3	97.7	101.2	104.7	107.7	120.
.160	93.0	95.4	92.9	93.1	92.5	93.5	94.1	96.1	102.0	107.0	110.3	122.
.200	91.6	90.8	91.0	92.7	93.5	94.9	96.8	99.5	105.7	110.7	113.7	124.
.250	92.5	92.6	92.8	95.0	96.1	97.6	98.6	102.6	108.1	113.3	115.5	127.
.315	94.6	93.7	94.7	96.8	97.9	99.0	100.9	105.8	109.9	115.5	118.4	129.
.400	97.2	97.5	97.3	97.9	100.1	102.4	104.5	109.3	114.1	118.6	120.9	133.
.500	99.7	98.5	98.7	100.1	100.5	102.4	105.3	110.1	116.7	121.0	119.7	134.
.630	100.3	99.7	100.1	101.7	102.2	104.3	107.3	113.2	118.6	122.3	120.6	136.
.800	99.8	101.1	101.6	102.5	103.5	104.9	107.5	113.9	119.6	122.9	120.2	136.
1.00	101.9	101.6	101.9	103.0	104.8	107.2	109.6	115.0	120.6	123.2	121.3	137.
1.25	101.2	103.1	103.3	104.4	105.6	107.7	110.3	115.6	120.9	123.4	120.4	137.
1.60	101.2	102.5	102.9	104.2	105.3	107.7	110.3	114.6	119.9	123.2	119.7	137.
2.00	101.2	101.9	102.6	104.5	105.4	107.8	110.7	114.5	118.8	122.0	118.2	136.
2.50	100.4	101.5	102.3	104.2	105.9	108.1	111.0	114.2	117.7	121.0	117.8	135.
3.15	100.2	101.3	102.3	104.1	105.6	108.4	111.0	113.5	116.5	119.2	115.7	134.
4.00	99.2	100.8	101.9	103.7	105.5	108.3	111.0	112.8	115.4	117.2	113.6	133.
5.00	98.7	99.9	101.0	103.4	105.1	107.9	110.3	111.8	113.9	115.3	111.0	131.
6.30	98.0	99.4	100.7	102.9	104.8	107.7	110.1	111.1	112.8	113.5	109.2	130.
8.00	96.6	98.7	100.1	102.3	104.3	107.1	109.2	109.7	111.4	111.7	106.9	129.
10.0	95.3	97.9	99.4	101.7	103.7	106.5	108.4	108.7	110.3	110.1	105.1	128.
12.5	94.6	96.6	98.3	100.8	102.8	105.8	107.3	107.1	108.3	108.5	103.5	127.
16.0	93.6	96.0	97.7	100.0	102.0	105.1	106.2	106.0	106.9	107.2	102.2	126.
20.0	91.8	94.6	96.2	98.5	100.7	103.2	104.6	104.1	105.0	105.6	100.1	124.
25.0	91.1	93.3	95.5	98.5	100.1	103.0	103.3	102.9	103.9	104.7	99.9	124.
31.5	90.3	93.0	95.2	97.6	99.5	101.9	102.8	102.3	103.4	104.2	98.9	123.
40.0	90.4	93.0	95.1	97.4	99.1	102.0	102.0	102.2	103.1	104.5	99.1	123.
50.0	90.1	92.7	94.6	97.3	98.7	101.5	102.3	101.9	102.8	104.3	99.3	122.
63.0	89.7	92.2	94.4	97.1	99.0	101.2	102.0	101.6	102.5	104.6	99.5	122.
80.0	90.0	92.5	95.0	97.0	99.3	101.4	102.7	102.0	104.3	106.1	101.0	122.
100.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	123.
												0.
OSPL	112.1	113.2	114.0	115.8	117.3	119.8	122.0	125.1	129.6	132.6	130.6	OAPWL = 147.1

STAND X206 RIG ID 070530 TEST DATE 03/10/77 SCALE RATIO 12.0/1 RUN NUMBER 2008 CONDITION 8512

				PRIMARY	FAN		PRIMARY	FAN			PRIMARY	FAN		PRIMARY	F
TEMP	77.0(F)	25.0(C)	AREA SQFT	8.640	11.520	SQM	0.803	1.070	MASS FLOW	LB/S	459.4	560.2	KG/S	208.4	254.
PRES	30.14IN	1.028AR	P.R.	2.00	1.79		2.00	1.79	THRUST,IDL	LB	25381.7	33288.9	KN	112.903	148.0
WIND D			TEMP (R)	1456.7	1973.7	(K)	809.3	1096.5	THRUST,MEA	LB		0.0	KN	0.0	
WIND V	0MPH	0.0M/S	RHO LB/FT3	0.033	0.023	KG/M3	0.524	0.373	AREA (MOD)	SQFT	0.660	0.660	SQM	0.066	0.06
REL H	70.0%		VEL FPS	1779.2	1913.6	M/S	542.3	583.3	W (MODEL)	LB/S	3.2	3.9	KG/S	1.4	1.

FAA DAY

1/3 OCTAVE BAND ENGINE JET NOISE DATA 150.0FT RADIUS (SCALED ENGINE)

BAND CENTER FREQ (KHZ)	MICROPHONE ANGLES IN DEGREES 60	70	80	90	100	110	120	130	140	150	160	PS 1E-
.050	101.9	101.3	101.7	103.3	103.8	105.9	108.9	114.8	120.2	123.9	122.2	
.063	101.4	102.7	103.2	104.1	105.1	106.5	109.1	115.5	121.2	124.5	121.8	15
.080	103.5	103.2	103.5	104.6	106.4	108.8	111.2	116.6	122.2	124.8	122.9	15
.100	102.8	104.7	104.9	106.0	107.2	109.3	111.9	116.6	122.5	125.0	122.0	16
.125	102.8	104.1	104.5	105.8	106.9	109.3	111.9	116.2	121.5	124.8	121.3	16
.160	102.7	103.4	104.1	106.0	106.9	109.3	112.2	115.8	120.3	123.5	119.7	16
.200	101.9	103.0	103.8	105.7	107.4	109.6	112.5	115.7	119.2	122.5	119.3	15
.250	101.7	102.8	103.8	105.6	107.1	109.9	112.5	115.0	118.0	120.7	117.2	15
.315	100.7	102.3	103.4	105.2	107.0	109.8	112.5	114.3	116.9	118.7	115.1	15
.400	100.2	101.4	102.5	104.9	106.6	109.4	111.8	113.3	115.4	116.8	112.5	15
.500	99.4	100.8	102.1	104.3	106.2	109.1	111.5	112.5	114.2	114.9	110.6	15
.630	98.0	100.1	101.5	103.7	105.7	108.5	110.6	111.1	112.8	113.1	108.3	15
.800	96.7	99.3	100.8	103.1	105.1	107.9	109.8	110.1	111.7	111.5	106.5	15
1.00	95.9	97.9	99.6	102.1	104.1	107.1	108.6	108.4	109.6	109.8	104.8	15
1.25	94.8	97.2	98.9	101.2	103.2	106.3	107.4	107.2	108.1	108.4	103.4	15
1.60	92.9	95.7	97.3	99.6	101.8	104.3	105.7	105.2	106.1	106.7	101.2	14
2.00	92.2	94.4	96.6	99.6	101.2	104.1	104.4	104.0	105.0	105.8	101.0	14
2.50	91.2	93.9	96.1	98.5	100.4	102.8	103.7	103.2	104.3	105.1	99.8	14
3.15	91.1	93.7	95.8	98.1	99.8	102.7	102.7	102.9	103.8	105.2	99.8	14
4.00	90.6	93.2	95.1	97.8	99.2	102.0	102.8	102.4	103.3	104.8	99.8	14
5.00	90.0	92.5	94.7	97.4	99.3	101.5	102.3	101.9	102.8	104.9	99.8	14
6.30	90.0	92.5	95.0	97.0	99.3	101.4	102.7	102.0	104.3	106.1	101.0	14
8.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	14
10.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	14
OSPL	112.9	114.1	115.0	116.8	118.4	120.9	123.2	126.3	130.6	133.4	130.5	
PNL	119.5	121.5	123.1	125.3	127.0	129.7	130.9	132.0	134.6	136.8	133.0	

OAPNL = 169

200. SIDELINE

PNL	115.4	118.2	120.3	122.6	124.2	126.4	126.9	126.9	128.0	127.8	120.5

370. SIDELINE

PNL	109.4	112.3	114.3	116.6	118.2	120.4	120.9	121.1	122.1	121.9	114.4

800. SIDELINE

PNL	101.6	104.1	106.1	108.5	110.0	112.1	113.1	113.4	114.4	114.1	106.3

2128. SIDELINE

PNL	90.5	93.0	94.8	97.1	98.7	100.8	101.9	102.4	103.6	103.1	95.1

ORIGINAL PAGE IS OF POOR QUALITY

STAND X206 RIG ID 070530 TEST DATE 03/10/77 SCALE RATIO 12.0/1 RUN NUMBER 20085 CONDITION 8513

					PRIMARY	FAN		PRIMARY	FAN			PRIMARY	FAN		PRIMARY	FAN
TEMP	90°F	32.2°C	AREA	SQFT	0.0	0.0	SQM	0.0	0.0	MASS FLOW	LB/S	0.0	0.0	KG/S	0.0	0.0
PRES	30.14IN	1.02BAR	P.R.		2.00	2.47		2.00	2.47	THRUST,IDL	LB	176.9	402.2	KN	0.787	1.789
WIND D			TEMP	(R)	1474.7	1979.7	(K)	819.3	1099.8	THRUST,MEA	LB		0.0	KN	0.0	
WIND V	0MPH	0.0M/S	RHO	LB/FT3	0.032	0.025	KG/M3	0.518	0.402	AREA (MOD)	SQFT	0.066	0.080	SQM	0.006	0.007
REL H	17 %		VEL	FPS	1791.3	2356.6	M/S	546.0	716.5	W (MODEL)	LB/S	3.2	5.5	KG/S	1.4	2.5

1/3 OCTAVE BAND MODEL JET NOISE DATA 15.0FT RADIUS THEORETICAL DAY SPL - (MODEL)

BAND CENTER FREQ (KHZ)	MICROPHONE ANGLES IN DEGREES 60	70	80	90	100	110	120	130	140	150	160	PDBE 1E-12
.050	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
.063	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
.080	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
.100	90.3	93.8	95.6	95.6	95.2	96.7	98.5	100.6	102.1	106.4	110.5	0.0
.125	91.0	94.6	94.8	96.4	98.0	97.7	96.6	100.7	104.3	108.0	111.3	122.6
.160	96.8	99.2	96.7	97.1	96.4	97.0	97.8	99.2	104.9	110.0	113.7	125.5
.200	95.4	94.6	94.9	96.2	97.1	96.5	100.4	103.0	109.1	114.0	116.2	125.3
.250	96.7	96.6	96.7	98.0	99.3	101.1	102.2	105.5	111.0	116.5	118.8	128.1
.315	97.6	96.9	98.2	100.3	101.5	102.3	104.4	109.1	113.1	118.8	122.1	130.1
.400	100.5	100.8	100.5	101.1	103.3	105.4	107.9	112.2	117.4	121.9	124.5	133.3
.500	102.4	101.4	101.8	103.1	103.5	105.6	108.4	113.4	120.4	124.6	123.2	136.1
.630	103.1	102.8	103.3	105.0	105.2	107.2	110.6	116.4	121.8	125.6	123.8	136.0
.800	102.8	104.1	104.5	105.7	106.8	108.0	110.9	117.2	122.8	126.1	123.6	139.3
1.00	104.7	104.7	105.0	105.9	108.0	110.3	112.8	118.1	123.8	126.6	124.9	139.9
1.25	104.1	105.9	106.3	107.3	108.7	110.6	113.6	118.1	123.8	126.6	123.9	140.7
1.60	104.0	105.7	106.1	107.4	108.7	111.0	114.0	118.0	123.5	127.1	123.4	140.7
2.00	104.3	105.1	105.8	107.5	108.8	111.1	114.8	118.1	123.4	126.4	121.7	140.6
2.50	103.8	104.8	105.7	107.4	109.1	111.7	115.4	118.4	123.9	125.5	120.6	140.3
3.15	103.6	104.9	105.8	107.5	109.5	112.4	115.9	118.6	124.4	123.8	117.8	140.2
4.00	103.3	104.8	105.8	107.7	109.7	112.8	116.2	118.9	124.2	121.3	115.7	139.8
5.00	103.1	104.4	105.5	107.7	109.7	112.8	116.1	119.1	122.8	119.9	113.7	139.2
6.30	102.8	104.1	105.5	107.5	109.8	113.0	116.0	119.6	121.2	118.2	111.9	138.4
8.00	101.6	103.7	105.4	107.6	109.6	112.9	115.6	119.1	120.0	116.8	110.2	137.6
10.0	100.6	103.1	104.7	107.1	109.4	112.5	115.0	118.1	118.9	115.6	108.8	136.9
12.5	100.0	102.2	104.4	106.7	109.1	112.2	114.3	116.9	117.8	114.4	107.6	136.0
16.0	99.5	101.8	103.9	106.2	108.7	111.8	113.5	115.9	117.0	113.5	106.5	135.1
20.0	97.9	100.9	102.7	105.0	107.5	110.3	112.4	114.6	115.6	112.2	104.9	134.3
25.0	97.1	99.8	102.1	104.9	107.1	110.2	111.4	114.0	114.8	111.6	104.8	133.6
31.5	96.8	99.7	102.2	104.8	107.0	109.7	111.6	113.9	115.1	111.8	104.0	132.5
40.0	97.0	99.8	102.3	104.9	107.1	110.5	111.4	114.7	115.5	112.3	104.8	132.4
50.0	96.9	99.6	101.9	104.8	106.8	110.2	112.2	114.9	115.9	112.9	105.1	132.8
63.0	96.6	99.3	101.9	104.6	107.4	110.6	112.6	115.6	116.5	113.3	105.6	133.2
80.0	97.2	99.9	102.5	105.1	108.2	111.4	114.1	117.2	118.8	115.3	107.3	133.7
100.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	135.4 0.0
OSPL	115.8	117.2	118.3	120.2	122.1	124.9	127.6	131.0	135.0	136.5	134.0	OAPWL = 151.8

STAND X206 RIG ID 070530 TEST DATE 03/10/77 SCALE RATIO 12.0/1 RUN NUMBER 2008 CONDITION 8513

			PRIMARY	FAN		PRIMARY	FAN			PRIMARY	FAN		PRIMARY	FAN
TEMP 77.0(F) 25.0(C)	AREA	SQFT	8.640	11.520	SQM	0.803	1.070	MASS FLOW	LB/S	457.9	793.4	KG/S	207.7	359.9
PRES 30.141N 1.02BAR	P.R.		2.00	2.47		2.00	2.47	THRUST,IDL	LB	25474.5	57920.5	KN	113.316	257.642
WIND D	TEMP	(R)	1474.7	1979.7	(K)	819.3	1099.8	THRUST,MEA	LB		0.0	KN	0.0	
WIND V 0MPH 0.0M/S	RHO	LB/FT3	0.032	0.025	KG/M3	0.518	0.402	AREA (MOD)	SQFT	0.060	0.080	SQM	0.006	0.007
REL H 70.0%	VEL	FPS	1791.3	2350.6	M/S	546.0	716.5	W (MODEL)	LB/S	3.2	5.5	KG/S	1.4	2.5

FAA DAY

1/3 OCTAVE BAND ENGINE JET NOISE DATA 150.0FT RADIUS (SCALED ENGINE)

BAND CENTER FREQ (KHZ)	MICROPHONE ANGLES IN DEGREES 60	70	80	90	100	110	120	130	140	150	160	POW 1E-1
.050	104.7	104.4	104.9	106.6	106.8	108.8	112.2	118.0	123.4	127.2	125.4	
.063	104.4	105.7	106.1	107.3	108.4	109.6	112.5	118.8	124.4	127.7	125.2	162.
.080	106.3	106.3	106.6	107.5	109.6	111.9	114.4	119.7	125.4	128.2	126.5	163.
.100	105.7	107.5	107.9	108.9	110.3	112.2	115.2	119.7	125.4	128.2	125.5	163.
.125	105.6	107.3	107.7	109.0	110.3	112.6	115.6	119.6	125.1	128.7	125.0	163.
.160	105.8	106.6	107.3	109.0	110.3	112.6	116.3	119.6	124.9	127.9	123.2	164.
.200	105.1	106.3	107.2	108.9	110.6	113.2	116.9	119.9	125.4	127.0	122.1	163.
.250	105.1	106.4	107.3	109.0	111.0	113.9	117.4	120.1	125.9	125.3	119.3	163.
.315	104.8	106.3	107.3	109.2	111.2	114.3	117.7	120.4	125.7	122.8	117.2	162.
.400	104.6	105.9	107.0	109.2	111.2	114.3	117.6	120.6	124.3	121.4	115.2	162.
.500	104.2	105.5	106.9	108.9	111.2	114.4	117.4	121.0	122.6	119.6	113.3	161.
.630	103.0	105.1	106.8	109.0	111.0	114.3	117.0	120.5	121.4	118.2	111.6	160.
.800	102.0	104.5	106.1	108.5	110.8	113.9	116.4	119.5	120.3	117.0	110.2	159.
1.00	101.3	103.5	105.7	108.0	110.4	113.5	115.6	118.2	119.1	115.7	108.9	159.
1.25	100.7	103.0	105.1	107.4	109.9	113.0	114.7	117.1	118.2	114.7	107.7	158.
1.60	99.0	102.0	103.8	106.1	108.6	111.4	113.5	115.7	116.7	113.3	106.0	157.
2.00	98.2	100.9	103.2	106.0	108.2	111.3	112.5	115.1	115.9	112.9	105.9	155.
2.50	97.7	100.6	103.1	105.7	107.9	110.6	112.5	114.8	116.0	112.7	104.9	155.
3.15	97.7	100.5	103.0	105.6	107.8	111.2	112.1	115.4	116.2	113.0	105.5	154.
4.00	97.4	100.1	102.4	105.3	107.3	110.7	112.7	115.4	116.4	113.4	105.6	155.
5.00	96.9	99.6	102.2	104.9	107.7	110.9	112.9	115.9	116.8	113.6	105.9	155.
6.30	97.2	99.9	102.5	105.1	108.2	111.4	114.1	117.2	118.8	115.3	107.3	156.
8.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.
10.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.

OASPL 116.7 118.1 119.3 121.2 123.1 126.0 128.7 132.1 136.1 137.3 133.8 OAPWL = 174.
PNL 124.9 127.1 129.0 131.4 133.5 136.6 138.7 141.7 144.0 142.1 136.6

200. SIDELINE
PNL 120.8 123.8 126.2 128.7 130.7 133.3 134.6 136.5 136.9 133.0 124.0

370. SIDELINE
PNL 114.8 117.8 120.2 122.7 124.6 127.2 128.4 130.3 130.6 127.1 117.9

800. SIDELINE
PNL 106.4 109.5 111.8 114.3 116.3 118.8 119.9 121.5 122.6 119.0 109.7

2128. SIDELINE
PNL 95.0 97.7 99.7 102.0 103.9 106.2 108.0 109.6 111.0 107.7 98.4

STAND X206 RIG ID 070530 TEST DATE 03/10/77 SCALE RATIO 12.0/1 RUN NUMBER 20085 CONDITION 8514

					PRIMARY	FAN		PRIMARY	FAN				PRIMARY	FAN		PRIMARY	FA
TEMP	90°F	32.2°C	AREA	SQFT	0.0	0.0	SQM	0.0	0.0	MASS FLOW	LB/S		0.0	0.0	KG/S	0.0	0.
PRES	30.14IN	1.02BAR	P.R.		2.00	4.07		2.00	4.07	THRUST,IDL	LB		174.9	466.5	KN	0.778	2.07
WIND D			TEMP	(R)	1458.7	1973.7	(K)	810.4	1096.5	THRUST,MEA	LB			0.0	KN	0.0	
WIND V		OMPH 0.0M/S	RHO	LB/FT3	0.033	0.028	KG/M3	0.524	0.455	AREA (MOD)	SQFT	0.060	0.080		SQM	0.006	0.00
REL H	17 %		VEL	FPS	1782.0	2839.6	M/S	543.2	865.5	W (MODEL)	LB/S		3.2	5.3	KG/S	1.4	2.

1/3 OCTAVE BAND MODEL JET NOISE DATA 15.0FT RADIUS THEORETICAL DAY SPL - (MODEL)

BAND CENTER FREQ (KHZ)	MICROPHONE ANGLES IN DEGREES 60	70	80	90	100	110	120	130	140	150	160	PO 1E-
.050	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
.063	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
.080	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
.100	95.6	99.1	100.9	100.3	100.2	101.8	102.9	105.1	106.8	111.6	116.1	
.125	97.6	101.3	100.9	101.9	103.0	102.3	102.1	105.8	109.2	113.0	117.1	12
.160	102.9	105.0	102.3	103.1	102.4	102.6	103.1	104.4	109.9	115.2	119.3	12
.200	101.8	100.2	100.6	101.6	102.4	103.7	105.8	108.1	114.1	119.1	121.9	13
.250	103.2	102.7	102.6	103.4	105.1	106.3	107.4	110.8	115.9	121.5	124.3	13
.315	102.7	101.8	103.6	105.8	107.1	107.9	109.5	113.9	118.0	124.3	127.4	13
.400	106.1	105.8	105.6	105.8	108.0	110.6	112.7	117.0	122.1	127.1	129.9	13
.500	107.2	106.3	106.3	107.3	108.2	110.2	113.6	118.2	125.5	129.8	128.6	14
.630	106.9	107.2	107.8	109.2	110.0	111.8	114.8	121.4	126.8	130.8	129.1	14
.800	107.1	108.1	108.9	109.9	111.1	112.4	115.6	122.2	127.9	131.3	128.7	14
1.00	107.9	108.3	109.0	109.9	112.1	114.3	117.3	123.3	129.1	131.7	128.9	14
1.25	107.9	108.3	109.7	110.6	112.4	114.9	118.6	123.5	129.8	131.6	126.7	14
1.60	106.9	108.6	109.2	110.7	112.5	114.9	119.2	123.7	130.3	131.0	124.8	14
2.00	108.6	108.5	109.4	110.9	112.7	115.5	120.3	124.4	130.7	128.8	122.0	14
2.50	109.5	110.9	110.2	111.5	113.4	116.5	121.3	125.8	130.8	126.7	121.0	14
3.15	109.5	111.4	112.5	112.6	114.1	117.6	122.2	126.7	129.5	125.2	119.0	14
4.00	108.9	110.6	112.0	114.1	115.1	118.2	122.8	127.8	127.6	123.4	117.3	14
5.00	109.3	110.2	111.4	113.7	115.8	118.5	122.7	127.2	126.0	121.8	115.4	14
6.30	109.6	110.5	111.6	113.5	116.0	119.0	122.6	126.1	124.9	120.5	113.8	14
8.00	109.6	110.8	111.9	113.6	115.7	118.9	122.0	124.5	123.9	119.0	112.2	14
10.0	108.8	111.4	112.0	113.6	115.5	118.8	121.5	123.6	123.0	117.9	111.0	14
12.5	108.6	110.6	112.4	113.6	115.4	118.2	120.7	122.6	121.8	116.9	109.8	14
16.0	108.2	110.4	112.1	113.7	115.3	117.8	120.0	121.9	121.0	116.2	108.8	14
20.0	106.9	109.6	111.1	112.7	114.2	116.2	118.9	120.8	119.7	114.9	107.2	14
25.0	106.5	108.8	110.7	112.9	114.0	116.4	118.2	120.3	119.1	114.4	107.3	13
31.5	106.3	109.0	111.1	112.9	114.3	116.1	118.5	120.0	119.5	114.3	106.7	13
40.0	106.7	109.6	111.5	113.3	114.6	117.1	118.6	121.1	119.5	115.0	107.4	13
50.0	107.0	109.7	111.5	113.6	114.9	117.3	119.6	121.5	120.1	115.4	107.9	13
63.0	106.9	109.7	112.0	114.1	116.0	117.9	120.4	122.0	120.1	116.0	108.3	13
80.0	107.8	110.7	113.4	115.0	117.3	119.5	122.3	123.5	122.3	117.9	110.1	14
100.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	14
OSPL	122.1	123.6	124.9	126.4	128.1	130.7	134.0	137.5	140.3	140.5	138.2	

OAPWL = 157

20085F TAPE P7339 NASA VSCE (NAS3-20061) CONFIG. D 15.2049

STAND X206 RIG ID 070530 TEST DATE 03/10/77 SCALE RATIO 12.0/1 RUN NUMBER 2008 CONDITION 8514

				PRIMARY	FAN		PRIMARY	FAN			PRIMARY	FAN		PRIMARY	FAN
TEMP 77.0(F) 25.0(C)	AREA	SQFT	8.640	11.520	SQM	0.803	1.070	MASS FLOW	LB/S	455.0	761.8	KG/S	206.4	345.5
PRES 30.14IN 1.028AR	P.R.		2.60	4.07		2.60	4.07	THRUST,IDL	LB	25182.7	67175.6	KN	112.018	298.811
WIND D	TEMP	(R)	1456.7	1973.7	(K)	810.4	1096.5	THRUST,MEA	LB		0.0	KN	0.0	
WIND V 0MPH 0.0M/S	RHO	LB/FT3	0.033	0.028	KG/M3	0.524	0.455	AREA (MOD)	SQFT	0.060	0.080	SQM	0.006	0.007
REL H 70.0%	VEL	FPS	1782.0	2839.6	M/S	543.2	865.5	W (MODEL)	LB/S	3.2	5.3	KG/S	1.4	2.4

FAA DAY

1/3 OCTAVE BAND ENGINE JET NOISE DATA 150.0FT RADIUS (SCALED ENGINE)

BAND CENTER FREQ (KHZ)	MICROPHONE ANGLES IN DEGREES 60	70	80	90	100	110	120	130	140	150	160	PWL
.050	108.5	108.8	109.4	110.8	111.6	113.4	116.4	123.6	128.4	132.4	130.7	
.063	108.7	109.7	110.5	111.5	112.7	114.0	117.2	123.8	129.5	132.9	130.3	
.080	109.5	109.9	110.6	111.5	113.7	115.9	118.9	124.9	130.7	133.3	130.5	
.100	109.5	110.4	111.3	112.2	114.0	116.5	120.2	125.1	131.4	133.2	128.3	
.125	108.5	110.2	110.8	112.3	114.1	116.5	120.3	125.3	131.9	132.6	126.4	
.160	110.1	110.0	110.9	112.4	114.2	117.0	121.8	125.9	132.2	130.3	123.5	
.200	111.4	112.4	111.7	113.0	114.9	118.0	122.8	127.3	132.3	128.2	122.5	
.250	111.0	112.9	114.0	114.1	115.6	119.1	123.7	128.2	131.0	126.7	120.5	
.315	110.4	112.1	113.5	115.6	116.6	119.7	124.3	129.3	129.1	124.9	118.8	
.400	110.8	111.7	112.9	115.2	117.3	120.0	124.2	128.7	127.5	123.3	116.9	
.500	111.0	111.9	113.0	114.9	117.4	120.4	124.0	127.5	126.3	121.9	115.2	
.630	111.0	112.2	113.3	115.0	117.1	120.3	123.4	125.9	125.3	120.4	113.6	
.800	110.2	112.3	113.4	115.0	116.9	120.2	122.9	125.0	124.4	119.3	112.4	
1.00	109.9	111.9	113.7	114.9	116.7	119.5	122.0	123.9	123.1	118.2	111.1	
1.25	109.4	111.6	113.3	114.9	116.5	119.0	121.2	123.1	122.2	117.4	110.0	
1.60	108.6	110.7	112.2	113.8	115.3	117.3	120.0	121.9	120.8	116.0	108.3	
2.00	107.6	109.9	111.8	114.0	115.1	117.5	119.3	121.4	120.2	115.5	106.4	
2.50	107.2	109.9	112.0	113.8	115.2	117.0	119.4	120.9	120.4	115.2	107.6	
3.15	107.4	110.3	112.2	114.0	115.3	117.8	119.3	121.8	120.2	115.7	108.1	
4.00	107.5	110.2	112.0	114.1	115.4	117.8	120.1	122.0	120.6	115.9	108.4	
5.00	107.2	110.0	112.3	114.4	116.3	118.2	120.7	122.3	120.4	116.3	108.6	
6.30	107.8	110.7	113.4	115.0	117.3	119.5	122.3	123.5	122.3	117.9	110.1	
8.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
10.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	

OSPL 122.9 124.5 125.8 127.4 129.1 131.7 135.1 138.7 141.4 141.2 137.2
PNL 133.2 135.5 137.1 138.8 140.4 142.8 145.7 148.2 148.3 144.8 138.9

200. SIDELINE
PNL 129.1 132.2 134.2 136.1 137.5 139.5 141.5 142.9 141.3 135.8 126.4

370. SIDELINE
PNL 123.0 126.1 128.2 130.0 131.4 133.4 135.2 136.7 135.2 129.9 120.3

800. SIDELINE
PNL 114.4 117.5 119.7 121.5 122.9 124.9 126.5 128.2 127.3 121.8 112.1

2128. SIDELINE
PNL 101.9 104.5 106.6 108.6 109.9 112.0 114.4 116.6 116.0 110.7 101.0

OAPWL = 17

STAND X206 RIG ID 705308 TEST DATE 03/10/77 SCALE RATIO 12.0/1 RUN NUMBER 20085 CONDITION 8519

					PRIMARY	FAN		PRIMARY	FAN			PRIMARY	FAN		PRIMARY	FAN
TEMP	93°F	33.9°C	AREA	SQFT	0.0	0.0	SQM	0.0	0.0	MASS FLOW	LB/S	0.0	0.0	KG/S	0.0	0.0
PRES	30.13IN	1.02BAR	P.R.		1.00	1.30		1.00	1.30	THRUST,IDL	LB	0.0	91.5	KN	0.0	0.407
WIND D			TEMP	(R)	1156.7	1268.7	(K)	642.6	704.8	THRUST,MEA	LB		0.0	KN		0.0
WIND V		0MPH 0.0M/S	RHO	LB/FT3	0.035	0.034	KG/M3	0.554	0.540	AREA (MOD)	SQFT	0.060	0.080	SQM	0.006	0.007
REL H	18 %		VEL	FPS	0.0	1044.6	M/S	0.0	318.4	W (MODEL)	LB/S	0.0	2.8	KG/S	0.0	1.3

1/3 OCTAVE BAND MODEL JET NOISE DATA 15.0FT RADIUS THEORETICAL DAY SPL - (MODEL)

BAND CENTER FREQ (KHZ)	MICROPHONE ANGLES IN DEGREES 60	70	80	90	100	110	120	130	140	150	160	PWL 1E-1
.050	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0
.063	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0
.080	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0
.100	70.3	72.5	75.7	77.9	77.3	77.7	80.0	82.2	83.4	86.3	89.4	103
.125	72.4	77.3	78.6	77.3	77.8	79.3	78.8	83.4	86.6	87.9	89.5	104
.160	74.7	78.9	79.3	79.1	77.4	78.7	79.8	81.8	86.7	90.4	92.2	105
.200	75.6	77.5	78.2	79.5	80.1	81.1	83.1	85.3	90.6	94.1	94.8	106
.250	78.6	81.0	81.5	82.8	83.2	83.9	85.4	88.4	92.7	96.3	97.2	111
.315	80.7	82.9	83.5	84.7	85.1	86.4	88.3	91.4	94.6	98.4	100.4	113
.400	82.8	83.8	85.4	86.6	87.7	89.0	90.7	93.9	97.7	101.0	103.0	116
.500	84.6	84.7	85.6	87.3	87.9	89.3	91.1	94.3	99.0	101.9	101.3	116
.630	84.6	84.8	86.6	87.6	89.0	90.4	92.6	95.4	98.2	101.8	101.1	117
.800	84.4	85.4	86.2	88.0	89.6	90.3	92.3	95.4	98.6	100.7	99.3	116
1.00	83.9	84.9	86.4	87.7	89.2	90.9	93.0	95.5	97.8	98.6	95.5	115
1.25	83.2	84.6	86.3	87.4	89.1	90.7	92.5	94.8	96.7	96.3	91.6	114
1.60	82.9	84.4	86.0	87.1	88.6	90.3	92.2	94.4	95.8	94.3	89.6	113
2.00	82.5	84.3	85.9	87.1	88.5	90.1	91.9	93.8	94.2	91.7	86.6	112
2.50	82.5	84.2	85.7	86.8	88.4	89.9	91.7	93.2	92.9	89.9	85.4	111
3.15	82.2	83.7	85.2	86.5	87.8	89.4	91.1	92.0	91.2	88.3	83.0	111
4.00	81.9	83.2	84.5	85.8	87.2	88.5	90.1	90.7	89.4	86.2	81.5	110
5.00	81.8	82.0	83.5	84.6	86.1	87.3	88.9	89.1	87.4	84.0	79.2	108
6.30	81.0	81.4	82.9	84.0	85.4	86.5	88.0	87.7	85.7	82.4	78.2	107
8.00	79.3	80.4	82.0	83.0	84.3	85.6	86.6	86.1	84.1	81.0	77.1	106
10.0	77.9	79.5	81.1	82.3	83.4	84.5	85.4	84.5	83.0	80.1	76.8	105
12.5	77.1	78.3	79.8	81.1	82.0	83.2	83.9	83.0	81.5	79.2	76.3	104
16.0	76.2	77.5	79.3	80.0	81.4	82.4	82.9	82.0	80.7	78.3	75.8	103
20.0	74.7	76.2	77.6	78.8	79.9	80.5	81.4	80.4	79.2	77.1	74.3	101
25.0	73.9	75.0	76.9	78.3	79.3	80.2	80.3	79.8	78.4	76.1	73.4	101
31.5	72.9	74.7	76.6	77.6	79.0	79.4	80.1	79.0	77.9	75.2	72.4	100
40.0	73.8	75.3	77.1	78.6	79.2	80.1	80.0	79.7	78.1	75.8	72.8	100
50.0	73.8	75.4	77.3	78.6	79.5	80.6	80.8	80.1	78.2	76.2	73.4	101
63.0	73.7	75.4	77.5	78.7	79.9	80.7	80.9	80.3	78.6	76.8	74.1	101
80.0	74.4	76.1	78.5	79.3	80.8	81.4	82.1	81.4	80.6	78.7	75.2	102
100.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0
OSPL	95.3	96.5	97.9	99.1	100.3	101.7	103.4	105.4	107.8	109.5	109.3	OAPWL = 126

STAND X206 RIG ID 705308 TEST DATE 03/10/77 SCALE RATIO 12.0/1 RUN NUMBER 2008 CONDITION 8519

				PRIMARY	FAN		PRIMARY	FAN				PRIMARY	FAN		PRIMARY	FAN
TEMP	77.0(F)	25.0(C)	AREA	SQFT	8.640	11.520	SQM	0.803	1.070	MASS FLOW	LB/S	4.3	417.6	KG/S	2.0	184.2
PRES	30.13IN	1.02BAR	P.R.		1.00	1.30		1.00	1.30	THRUST,IDL	LB	0.0	13173.6	KN	0.0	58.599
WIND D			TEMP	(R)	1156.7	1268.7	(K)	642.6	704.8	THRUST,MEA	LB		0.0	KN	0.0	
WIND V	OMPH	0.0M/S	RHO	LB/FT3	0.035	0.034	KG/M3	0.554	0.540	AREA (MOD)	SQFT	0.060	0.080	SQM	0.006	0.007
REL H	70.0%		VEL	FPS	0.0	1044.6	M/S	0.0	318.4	W (MODEL)	LB/S	0.0	2.8	KG/S	0.0	1.3

F/A DAY

1/3 OCTAVE BAND ENGINE JET NOISE DATA 150.0FT RADIUS (SCALED ENGINE)

BAND CENTER FREQ (KHZ) — MICROPHONE ANGLES IN DEGREES

	60	70	80	90	100	110	120	130	140	150	160	PWL E-12
.050	86.2	86.4	88.2	89.2	90.6	92.0	94.2	97.0	100.8	103.4	102.7	
.063	86.0	87.0	87.8	89.6	90.6	91.9	93.9	97.0	100.2	102.3	100.9	140.
.080	85.5	86.5	88.0	89.3	90.8	92.5	94.6	97.1	99.4	100.2	97.1	139.
.100	84.8	86.2	87.9	89.0	90.7	92.3	94.1	96.4	98.3	97.9	93.2	138.
.125	84.5	86.0	87.6	88.7	90.2	91.9	93.8	96.0	97.4	95.9	91.2	137.
.160	84.0	85.8	87.4	88.6	90.0	91.6	93.4	95.3	95.7	93.2	88.1	136.
.200	84.0	85.7	87.2	88.3	89.9	91.4	93.2	94.7	94.4	91.4	86.9	135.
.250	83.7	85.2	86.7	88.0	89.3	90.9	92.6	93.5	92.7	89.8	84.5	134.
.315	83.4	84.7	86.0	87.3	88.7	90.0	91.6	92.2	90.9	87.7	83.0	133.
.400	83.3	83.5	85.0	86.1	87.6	88.8	90.4	90.6	88.9	85.5	80.7	131.
.500	82.4	82.8	84.3	85.4	86.8	87.9	89.4	89.1	87.1	83.8	79.6	130.
.630	80.7	81.8	83.4	84.4	85.7	87.0	88.0	87.5	85.5	82.4	78.5	129.
.800	79.3	80.9	82.5	83.7	84.8	85.9	86.8	85.9	84.4	81.5	78.2	128.
1.00	78.4	79.6	81.1	82.4	83.3	84.5	85.2	84.3	82.8	80.5	77.6	127.
1.25	77.4	78.7	80.5	81.2	82.6	83.6	84.1	83.2	81.9	79.5	77.0	126.
1.60	75.8	77.3	78.7	79.9	81.0	81.6	82.5	81.5	80.3	78.2	75.4	124.
2.00	75.0	76.1	78.0	79.4	80.4	81.3	81.4	80.9	79.5	77.2	75.0	123.
2.50	73.8	75.6	77.5	78.5	79.9	80.3	81.0	79.9	78.8	76.1	73.3	122.
3.15	74.5	76.0	77.8	79.3	79.9	80.8	80.7	80.4	78.8	76.5	73.5	123.
4.00	74.3	75.9	77.8	79.1	80.0	81.1	81.3	80.6	78.7	76.7	73.9	123.
5.00	74.0	75.7	77.8	79.0	80.2	81.0	81.2	80.6	78.9	77.1	74.4	123.
6.30	74.4	76.1	78.5	79.3	80.8	81.4	82.1	81.4	80.6	78.7	75.2	124.
8.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	124.
10.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.
												0.

OAPWL = 147.

OSPL	95.6	96.7	98.3	99.5	100.9	102.3	104.0	105.8	107.5	108.2	106.2
PNL	102.4	103.8	105.5	106.8	107.9	109.1	109.9	110.1	109.8	108.5	105.9

200. SIDELINE

PNL	98.3	100.5	102.7	104.1	105.1	105.8	105.9	105.1	103.1	99.6	93.3

370. SIDELINE

PNL	92.1	94.4	96.6	98.1	99.0	99.6	99.8	99.3	97.3	93.6	86.5

800. SIDELINE

PNL	84.0	85.9	88.2	89.6	90.7	91.5	92.0	91.4	89.3	85.1	77.0

2128. SIDELINE

PNL	72.4	74.5	76.7	78.1	79.4	80.1	80.6	80.0	77.6	72.7	63.7

STAND X206 RIG ID 705306 TEST DATE 03/10/77 SCALE RATIO 12.0/1 RUN NUMBER 20085 CONDITION 8520

TEMP 93°F 33.9°C
PRES 30.13IN 1.02BAR
WIND D
WIND V 0MPH 0.0M/S
REL H 18%

		PRIMARY	FAN		PRIMARY	FAN
AREA	SQFT	0.0	0.0	SQM	0.0	0.0
P.R.		1.00	1.78		1.00	1.78
TEMP	(R)	1251.7	1265.7	(K)	695.4	703.2
RHO	LB/FT3	0.032	0.037	KG/M3	0.512	0.589
VEL	FPS	0.0	1527.5	M/S	0.0	465.6

		PRIMARY	FAN		PRIMARY	FAN
MASS FLOW	LB/S	0.0	0.0	KG/S	0.0	0.0
THRUST,IDL	LB	0.0	221.5	KN	0.0	0.985
THRUST,MEA	LB		0.0	KN	0.0	
AREA (MOD)	SQFT	0.060	0.080	SQM	0.006	0.007
W (MODEL)	LB/S	0.0	4.7	KG/S	0.0	2.1

SAND 1/3 OCTAVE BAND MODEL JET NOISE DATA 15.0FT RADIUS THEORETICAL DAY SPL - (MODEL)

CENTER FREQ (KHZ)	MICROPHONE ANGLES IN DEGREES 60	70	80	90	100	110	120	130	140	150	160
.050	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
.063	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
.080	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
.100	77.8	80.9	83.8	85.3	84.5	85.2	87.5	90.1	92.0	95.4	98.6
.125	79.9	84.2	85.2	84.9	86.8	88.6	86.8	91.2	95.2	97.4	99.4
.160	83.7	87.4	87.2	86.9	85.3	87.2	87.8	90.2	95.8	99.6	102.3
.200	83.1	84.3	85.4	87.2	88.4	89.3	91.4	94.0	99.8	104.1	105.4
.250	86.0	87.5	88.4	90.5	91.1	92.1	93.9	97.5	102.3	106.8	108.2
.315	88.4	89.3	90.8	92.7	93.2	94.9	96.9	101.2	105.2	109.5	111.8
.400	91.5	92.4	93.7	94.7	96.7	98.1	100.1	104.5	109.0	112.9	115.1
.500	94.9	93.8	94.9	96.4	97.1	99.0	101.4	105.8	112.1	115.6	114.8
.630	95.3	94.9	95.9	97.9	98.6	100.4	103.5	108.1	113.6	116.7	115.7
.800	94.2	96.1	96.8	98.2	99.6	101.6	103.6	108.9	114.0	117.1	115.1
1.00	95.3	95.7	96.8	98.0	100.2	102.5	105.1	109.5	114.0	116.1	114.7
1.25	94.8	96.1	97.5	98.6	100.4	102.3	105.0	109.1	112.9	114.4	112.8
1.60	94.1	95.6	97.0	98.1	99.9	102.1	105.0	108.8	111.6	112.4	110.9
2.00	94.2	95.1	96.9	98.1	99.9	102.4	105.2	108.4	110.0	109.9	108.2
2.50	94.0	95.4	97.0	98.3	100.2	102.5	105.4	108.1	109.1	108.7	107.9
3.15	94.1	95.1	96.8	98.3	100.1	102.6	105.4	107.3	107.8	107.7	106.2
4.00	94.1	94.9	96.5	97.8	99.8	102.1	104.8	106.4	106.5	106.1	104.8
5.00	93.7	94.2	95.7	97.0	99.1	101.3	103.9	105.1	104.7	104.0	101.9
6.30	93.4	93.6	95.3	96.7	98.6	100.9	103.3	104.0	103.4	102.3	99.5
8.00	92.0	93.0	94.7	96.1	97.8	99.9	102.1	102.6	101.7	100.0	97.2
10.0	90.7	92.4	94.0	95.4	97.1	99.1	100.9	101.1	100.2	98.2	95.7
12.5	90.1	91.3	92.9	94.3	96.2	98.2	99.5	99.3	98.1	96.5	94.8
16.0	88.9	90.4	92.5	93.6	95.3	97.4	98.5	98.1	97.0	95.5	94.4
20.0	87.3	89.0	90.8	92.2	94.0	95.4	96.8	96.2	95.5	94.3	93.2
25.0	86.5	87.7	90.3	91.7	93.3	95.1	95.8	95.5	94.5	93.5	93.1
31.5	85.1	87.3	89.7	91.2	92.9	93.9	95.2	94.5	94.2	92.9	92.1
40.0	85.7	87.7	89.9	91.7	92.9	94.5	94.9	95.2	94.4	93.6	92.5
50.0	85.6	87.7	89.8	91.8	93.1	94.9	95.5	95.3	94.3	93.5	92.4
63.0	85.2	87.6	89.8	91.7	93.4	94.7	95.3	95.2	94.3	93.6	92.1
80.0	86.1	88.1	90.9	92.3	94.0	95.3	96.4	96.0	96.1	95.1	93.3
100.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

	PURE TONE SPL
	1E-12
	0.
	0.
	0.
	111.
	113.
	114.
	118.
	121.
	124.
	127.
	129.
	130.
	131.
	130.
	129.
	128.
	127.
	126.
	126.
	125.
	124.
	123.
	121.
	120.
	119.
	118.
	116.
	116.
	115.
	115.
	115.
	116.
	0.

OSPL 106.4 107.3 108.8 110.2 111.8 113.9 116.3 119.2 122.5 124.7 123.9

OAPWL = 140.2

STAND X206 RIG ID 705308 TEST DATE 03/10/77 SCALE RATIO 12.0/1 RUN NUMBER 2006 CONDITION 8520

					PRIMARY	FAN			PRIMARY	FAN			PRIMARY	FAN			PRIMARY	FAN
TEMP	77.0(F)	25.0(C)	AREA	SQFT	8.640	11.520	SQM	0.803	1.070	MASS FLOW	LB/S	2.9	692.6	KG/S	1.3	305.0
PRES	30.13IN	1.02BAR	P.R.		1.00	1.78		1.00	1.78	THRUST,IDL	LB	0.0	31900.0	KN	0.0	141.89
WIND D			TEMP	(R)	1251.7	1265.7	(K)	695.4	703.2	THRUST,MEA	LB		0.0	KN	0.0	
WIND V	0MPH	0.0M/S	RHO	LB/FT3	0.032	0.037	KG/M3	0.512	0.589	AREA (MOD)	SQFT	0.060	0.080	SQM	0.006	0.007
REL H	70.0%		VEL	FPS	0.0	1527.5	M/S	0.0	465.6	W (MODEL)	LB/S	0.0	4.7	KG/S	0.0	2.1

F/A DAY

1/3 OCTAVE BAND ENGINE JET NOISE DATA 150.0FT RADIUS (SCALED ENGINE)

BAND CENTER FREQ (KHZ) — MICROPHONE ANGLES IN DEGREES

	60	70	80	90	100	110	120	130	140	150	160	PW
.050	96.9	96.5	97.5	99.5	100.2	102.6	105.1	109.7	115.2	118.3	117.3	15
.063	95.8	97.7	98.4	99.8	101.2	102.6	105.2	110.5	115.6	118.7	116.7	15
.080	96.9	97.3	98.4	99.6	101.8	104.1	106.7	111.1	115.6	117.7	116.3	15
.100	96.4	97.7	99.1	100.2	102.0	103.9	106.6	110.7	114.5	116.0	114.4	15
.125	95.7	97.2	98.6	99.7	101.5	103.7	106.6	110.4	113.2	114.0	112.5	15
.160	95.7	96.6	98.4	99.6	101.4	103.9	106.7	109.9	111.5	111.4	109.7	15
.200	95.5	96.9	98.5	99.8	101.7	104.0	106.9	109.6	110.6	110.2	109.4	15
.250	95.6	96.6	98.3	99.8	101.6	104.1	106.9	108.6	109.3	109.2	107.7	14
.315	95.6	96.4	98.0	99.3	101.3	103.6	106.3	107.9	108.0	107.6	106.3	14
.400	95.2	95.7	97.2	98.5	100.6	102.8	105.4	106.6	106.2	105.5	103.4	14
.500	94.8	95.0	96.7	98.1	100.0	102.3	104.7	105.4	104.8	103.7	100.9	14
.630	93.4	94.4	96.1	97.5	99.2	101.3	103.5	104.0	103.1	101.4	98.6	14
.800	92.1	93.8	95.4	96.8	98.5	100.5	102.3	102.5	101.6	99.6	97.1	14
1.00	91.4	92.6	94.2	95.6	97.5	99.5	100.8	100.6	99.4	97.8	96.1	14
1.25	90.1	91.6	93.7	94.8	96.5	98.6	99.7	99.3	98.2	96.7	95.6	14
1.60	88.4	90.1	91.9	93.3	95.1	96.5	97.9	97.3	96.6	95.4	94.3	13
2.00	87.6	88.8	91.4	92.8	94.4	96.2	96.9	96.6	95.6	94.6	94.2	13
2.50	86.0	88.2	90.6	92.1	93.8	94.8	96.1	95.4	95.1	93.8	93.0	13
3.15	86.4	88.4	90.6	92.4	93.6	95.2	95.6	95.9	95.1	94.3	93.2	13
4.00	86.1	88.2	90.3	92.3	93.6	95.4	96.0	95.8	94.8	94.0	92.9	13
5.00	85.5	87.9	90.1	92.0	93.7	95.0	95.6	95.5	94.6	93.9	92.4	13
6.30	86.1	88.1	90.9	92.3	94.0	95.3	96.4	96.0	96.1	95.1	93.3	13
8.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0
10.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0

OAPWL = 162

OSPL	107.2	108.2	109.7	111.0	112.8	114.9	117.4	120.3	123.2	125.0	123.5
PNL	114.4	116.0	117.9	119.4	121.0	122.9	124.4	125.3	126.0	126.3	124.8

200. SIDELINE

PNL	110.4	112.7	115.1	116.8	118.2	119.6	120.3	120.3	119.4	117.4	112.2

370. SIDELINE

PNL	104.3	106.7	109.1	110.8	112.2	113.6	114.3	114.5	113.6	111.5	106.2

800. SIDELINE

PNL	96.3	98.3	100.8	102.5	103.9	105.4	106.6	106.8	105.9	103.7	98.1

2128. SIDELINE

PNL	84.9	87.0	89.3	90.9	92.6	94.2	95.5	95.9	95.1	92.9	86.6

STAND X206 RIG ID 070530 TEST DATE 03/10/77 SCALE RATIO 12.0/1 RUN NUMBER 20085 CONDITION 8521

				PRIMARY	FAN		PRIMARY	FAN			PRIMARY	FAN		PRIMARY	FAN
TEMP	94°F	34.4°C	AREA	SQFT 0.0	0.0	SQM	0.0	0.0	MASS FLOW	LB/S	0.0	0.0	KG/S	0.0	0.0
PRES	30.14IN	1.02BAR	P.R.	0.99	2.48		0.99	2.48	THRUST,IDL	LB	0.0	384.1	KN	0.0	1.708
WIND D			TEMP	(R) 1252.7	1264.7	(K)	695.9	702.6	THRUST,MEA	LB		0.0	KN	0.0	
WIND V	0MPH	0.0M/S	RHO	LB/FT3 0.032	0.040	KG/M3	0.510	0.642	AREA (MOD)	SQFT	0.060	0.080	SQM	0.006	0.007
REL H	17%		VEL	FPS 0.0	1873.7	M/S	0.0	571.1	W (MODEL)	LB/S	0.0	6.6	KG/S	0.0	3.0

1/3 OCTAVE BAND MODEL JET NOISE DATA 15.0FT RADIUS THEORETICAL DAY SPL - (MODEL)

BAND CENTER FREQ (KHZ)	MICROPHONE ANGLES IN DEGREES 60	70	80	90	100	110	120	130	140	150	160	POW 1E-1
.050	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
.063	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0
.080	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0
.100	84.3	87.3	90.0	91.5	90.7	91.0	92.8	95.7	97.3	101.5	105.4	0
.125	86.4	89.7	89.7	91.1	93.6	94.5	92.3	96.6	100.3	103.5	106.3	117
.160	90.6	93.4	92.1	92.2	91.3	92.7	93.4	95.7	101.2	106.0	108.7	119
.200	89.5	89.5	90.9	92.9	94.4	94.9	96.6	99.4	105.3	110.6	111.7	120
.250	91.3	92.0	93.2	95.8	96.5	97.3	98.9	102.5	108.0	113.1	114.8	124
.315	93.9	94.1	95.8	97.7	98.9	100.0	101.6	106.3	110.7	115.6	118.3	127
.400	97.4	97.6	98.9	99.8	101.7	103.2	104.9	109.7	114.8	119.4	121.8	130
.500	100.5	99.3	100.3	101.6	102.1	103.8	106.2	111.2	117.9	122.5	121.2	133
.630	101.9	100.8	101.3	103.6	103.8	105.8	108.5	114.5	120.2	124.1	122.3	135
.800	100.6	101.6	102.3	103.8	105.1	106.2	108.9	115.9	121.5	124.8	121.9	137
1.00	102.2	102.1	102.6	104.2	106.1	108.4	110.8	117.2	122.5	124.7	122.6	138
1.25	103.9	103.6	104.8	106.2	107.3	108.8	111.5	117.1	122.9	124.7	122.7	139
1.60	102.6	103.7	104.4	105.4	106.8	108.8	111.4	116.8	121.7	124.5	122.2	139
2.00	103.1	102.9	103.8	105.1	106.3	108.4	111.6	116.5	120.3	123.0	120.6	138
2.50	102.8	102.8	103.5	105.0	106.5	108.6	112.0	116.3	119.5	122.5	120.7	137
3.15	102.4	102.4	103.3	104.7	106.3	108.9	111.9	115.5	118.3	121.0	118.0	137
4.00	104.1	103.0	103.2	104.4	106.0	108.6	111.7	114.8	117.3	119.3	115.7	135
5.00	105.2	103.8	103.4	104.0	105.5	108.0	111.0	113.6	115.8	117.4	113.5	134
6.30	105.1	104.0	104.3	104.6	105.3	107.7	110.6	112.9	114.9	115.9	111.9	133
8.00	103.3	103.7	104.2	104.3	105.0	107.1	109.6	111.5	113.6	114.0	110.2	132
10.0	101.4	102.8	103.7	104.3	104.8	106.8	108.8	110.4	112.4	112.9	108.9	131
12.5	100.6	101.1	102.5	103.8	104.6	106.5	107.9	108.9	110.6	111.7	107.7	130
16.0	99.7	100.4	101.7	102.8	104.4	106.2	106.9	108.0	109.4	110.6	107.2	129
20.0	97.9	99.3	100.4	101.5	102.9	104.5	105.9	106.1	107.6	109.3	105.9	128
25.0	96.7	97.9	99.6	101.4	102.4	104.2	104.7	105.3	106.7	108.6	105.7	127
31.5	95.6	97.6	99.4	100.9	102.1	103.2	104.6	104.7	106.6	108.3	104.9	126
40.0	96.0	97.9	99.7	101.4	102.4	104.2	104.2	105.6	107.1	109.4	105.9	126
50.0	95.9	97.7	99.6	101.5	102.4	104.2	105.1	105.8	107.4	109.7	106.4	126
63.0	95.6	97.5	99.5	101.5	102.9	104.2	105.3	106.0	107.5	110.3	106.9	126
80.0	96.2	98.2	100.6	102.2	103.9	105.1	106.5	107.3	110.0	112.6	109.0	127
100.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	128
												0
OSPL	115.4	115.4	116.3	117.5	118.7	120.7	123.0	127.1	131.4	134.2	132.3	OAPWL = 148.

STAND X206 RIG ID 070536 TEST DATE 03/10/77 SCALE RATIO 12.0/1 RUN NUMBER 2008 CONDITION 8521

				PRIMARY	FAN		PRIMARY	FAN			PRIMARY	FAN		PRIMARY	FAN
TEMP	77.0(F)	25.0(C)	AREA SQFT	8.640	11.520	SQM	0.803	1.070	MASS FLOW	LB/S	4.3	950.4	KG/S	2.0	431.1
PRES	30.14IN	1.023AR	P.R.		0.99	2.48		0.99	2.48	THRUST,IDL	LB	0.0	55304.6	KN	0.0	246.006
WIND D			TEMP (R)	1252.7	1264.7	(K)	695.9	702.6	THRUST,MEA	LB		0.0		KN	0.0	
WIND V	0MPH	0.0M/S	RHO LB/FT3	0.032	0.040	KG/M3	0.510	0.642	AREA (MOD)	SQFT	0.060	0.080	SQM	0.006	0.007
REL H	70.0%		VEL FPS	0.0	1873.7	M/S	0.0	571.1	W (MODEL)	LB/S	0.0	6.6	KG/S	0.0	3.0

FAA DAY 1/3 OCTAVE BAND ENGINE JET NOISE DATA 150.0FT RADIUS (SCALED ENGINE)

BAND CENTER FREQ (KHZ)	MICROPHONE ANGLES IN DEGREES 60	70	80	90	100	110	120	130	140	150	160	POWER 11-12
.050	103.5	102.4	102.9	105.2	105.4	107.4	110.1	116.1	121.8	125.7	123.9	160.
.063	102.2	103.2	103.9	105.4	106.7	107.8	110.5	117.5	123.1	126.4	123.5	161.
.080	103.8	103.7	104.2	105.8	107.7	110.0	112.4	118.8	124.1	126.3	124.2	162.
.100	105.5	105.2	106.4	107.8	108.9	110.4	113.1	118.7	124.5	126.3	124.3	162.
.125	104.2	105.3	106.0	107.0	108.4	110.4	113.0	118.4	123.3	126.1	123.8	161.
.160	104.6	104.4	105.3	106.6	107.8	109.9	113.1	118.0	121.8	124.5	122.1	160.
.200	104.3	104.3	105.0	106.5	108.0	110.3	113.5	117.8	121.0	124.0	122.2	160.
.250	103.9	103.9	104.8	106.2	107.8	110.4	113.4	117.0	119.8	122.5	119.5	159.
.315	105.6	104.5	104.7	105.9	107.5	110.1	113.2	116.3	118.8	120.8	117.2	157.
.400	106.7	105.3	104.9	105.5	107.0	109.5	112.5	115.1	117.3	118.9	115.0	156.
.500	106.5	105.4	105.7	106.0	106.7	109.1	112.0	114.3	116.3	117.3	113.3	155.
.630	104.7	105.1	105.6	105.7	106.4	108.5	111.0	112.9	115.0	115.6	111.6	154.
.800	102.8	104.2	105.1	105.7	106.2	108.2	110.2	111.8	113.8	114.3	110.3	153.
1.00	101.9	102.4	103.8	105.1	105.9	107.8	109.2	110.2	111.9	113.0	109.0	152.
1.25	100.9	101.6	102.9	104.0	105.6	107.4	108.1	109.2	110.6	111.8	108.4	151.
1.60	99.0	100.4	101.5	102.6	104.0	105.6	107.0	107.2	108.7	110.4	107.0	149.
2.00	97.8	99.0	100.7	102.5	103.5	105.3	105.8	106.4	107.8	109.7	106.8	149.
2.50	96.5	98.5	100.3	101.8	103.0	104.1	105.5	105.6	107.5	109.2	105.8	148.
3.15	96.7	98.6	100.4	102.1	103.1	104.9	104.9	106.3	107.8	110.1	106.6	148.
4.00	96.4	98.2	100.1	102.0	102.9	104.7	105.6	106.3	107.9	110.2	106.9	148.
5.00	95.9	97.8	99.8	101.8	103.2	104.5	105.6	106.3	107.8	110.6	107.2	148.
6.30	96.2	98.2	100.6	102.2	103.9	105.1	106.5	107.3	110.0	112.6	109.0	150.
8.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.
10.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.

OAPWL = 171.

OSPL	116.5	116.5	117.3	118.5	119.7	121.7	124.2	128.3	132.5	135.1	132.6	
PNL	124.4	125.4	126.8	128.2	129.4	131.2	132.7	134.7	137.1	139.4	136.6	

200. SIDELINE

PNL	120.4	122.2	124.0	125.5	126.5	127.9	128.6	129.5	130.3	130.3	123.9	

370. SIDELINE

PNL	114.6	116.2	117.9	119.5	120.5	121.9	122.5	123.4	124.5	124.3	117.8	

800. SIDELINE

PNL	106.8	107.8	109.6	111.2	112.2	113.5	114.2	115.6	116.6	116.3	109.4	

2128. SIDELINE

PNL	95.5	96.4	97.7	98.9	100.0	101.5	102.9	104.5	105.6	105.0	97.8	

STAND X206 RIG ID 070530 TEST DATE 03/10/77 SCALE RATIO 12.0/1 RUN NUMBER 20085 CONDITION 8522

				PRIMARY	FAN		PRIMARY	FAN				PRIMARY	FAN		PRIMARY	FAN
TEMP	94°F 34.4°C	AREA	SQFT	0.0	0.0	SQM	0.0	0.0	MASS FLOW	LB/S		0.0	0.0	KG/S	0.0	0.0
PRES	30.14IN 1.02BAR	P.R.		0.96	3.18		0.96	3.18	THRUST,IDL	LB		0.0	549.4	KN	0.0	2.444
WIND D		TEMP	(R)	1250.7	1263.7	(K)	694.8	702.1	THRUST,MEA	LB			0.0	KN	0.0	
WIND V	0MPH 0.0M/S	RHO	LB/FT3	0.082	0.043	KG/M3	0.507	0.686	AREA (MOD)	SQFT		0.060	0.080	SQM	0.006	0.007
REL H	17 %	VEL	FPS	0.0	2081.1	M/S	0.0	634.3	W (MODEL)	LB/S		0.0	8.5	KG/S	0.0	3.9

1/3 OCTAVE BAND MODEL JET NOISE DATA 15.0FT RADIUS THEORETICAL DAY SPL - (MODEL)

BAND CENTER FREQ (KHZ)	MICROPHONE ANGLES IN DEGREES 60	70	80	90	100	110	120	130	140	150	160	PWL 1E-12
.050	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.
.063	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.
.080	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.
.100	88.5	91.6	94.0	94.6	94.0	94.6	96.2	98.8	100.3	104.9	109.0	121.
.125	89.6	92.6	93.1	95.2	97.0	97.5	95.8	99.7	103.4	106.5	109.7	122.
.160	94.9	97.4	95.7	96.0	95.1	96.0	97.2	99.0	104.6	109.5	112.7	124.
.200	93.5	93.2	94.6	96.6	97.2	98.4	100.1	102.6	108.6	113.3	115.4	127.
.250	95.5	95.5	96.7	98.8	99.5	101.4	102.4	106.0	111.7	116.8	118.9	131.
.315	96.9	96.7	98.7	100.9	102.2	103.3	105.2	109.5	113.8	119.1	122.3	133.
.400	100.6	100.4	101.1	102.4	103.9	105.9	107.6	112.3	117.8	122.8	125.4	137.
.500	102.2	102.1	103.1	104.2	104.3	106.4	109.0	113.9	121.2	125.9	124.7	139.
.630	104.6	103.6	104.2	106.2	106.5	108.5	111.3	117.5	123.5	127.4	125.7	141.
.800	103.4	103.9	105.1	106.7	107.5	109.6	111.5	119.0	125.0	128.1	125.0	141.
1.00	105.1	105.0	105.8	107.3	108.9	111.3	114.6	120.9	126.9	128.5	126.2	143.
1.25	107.7	106.9	108.0	109.2	110.5	112.1	114.7	121.3	127.5	128.7	126.3	145.
1.60	107.3	107.8	108.5	109.4	110.4	112.2	115.2	121.3	127.5	129.8	126.6	145.
2.00	107.6	106.1	106.8	108.1	109.2	111.4	115.1	120.6	126.4	127.3	123.0	142.
2.50	108.2	107.1	106.8	107.9	109.5	111.7	115.4	120.7	126.0	126.1	122.0	141.
3.15	109.1	108.8	108.5	108.5	109.2	111.8	115.5	120.0	124.8	124.3	119.4	140.
4.00	111.8	110.4	109.2	109.2	109.5	112.0	115.4	119.5	123.8	122.4	117.0	139.
5.00	110.9	110.8	110.3	109.8	109.7	111.6	114.8	118.5	122.2	120.6	114.8	138.
6.30	109.7	109.7	110.6	110.8	110.2	111.9	114.7	118.1	121.2	119.3	113.3	137.
8.00	108.2	108.7	109.6	110.5	110.6	111.7	114.0	116.9	119.9	117.9	111.7	136.
10.0	107.4	108.3	108.9	109.9	110.6	111.9	113.5	116.0	119.1	116.9	110.8	136.
12.5	107.1	107.7	108.6	109.2	110.0	111.8	112.8	114.8	117.7	115.7	109.8	135.
16.0	106.2	107.4	108.6	109.1	109.8	111.4	112.4	113.9	116.9	114.9	109.4	134.
20.0	104.7	106.5	107.5	108.1	108.9	109.8	111.5	112.5	115.7	113.6	108.1	133.
25.0	103.9	105.3	106.8	108.3	108.6	109.9	110.4	111.9	114.8	113.1	107.9	132.
31.5	103.3	105.1	106.9	107.9	108.7	109.5	110.4	111.7	114.8	112.9	107.3	132.
40.0	103.8	105.8	107.7	109.0	109.4	110.7	110.8	112.9	115.7	114.1	108.4	133.
50.0	104.0	105.9	107.6	109.2	109.9	111.3	112.1	113.6	116.5	114.8	108.9	134.
63.0	103.9	105.7	108.0	109.6	111.0	111.8	112.6	114.3	117.2	115.8	109.7	134.
80.0	104.8	106.9	109.4	110.6	112.3	113.1	114.5	116.3	119.7	118.3	111.6	136.
100.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.
OSPL	120.8	121.0	121.7	122.6	123.4	125.0	127.2	131.6	136.7	138.0	135.6	

OAPWL = 153.

STAND X206 RIG ID 670530 TEST DATE 03/10/77 SCALE RATIO 12.0/1 RUN NUMBER 2008 CONDITION 8522

					PRIMARY	FAN			PRIMARY	FAN			PRIMARY	FAN			PRIMARY	FAN
TEMP	77.0(F)	25.0(C)	AREA	SQFT	8.640	11.520	SQM	0.803	1.070	MASS FLOW	LB/S	5.8	1224.0	KG/S	2.6	555.2
PRES	30.34IN	1.02BAR	P.R.		0.96	3.18		0.96	3.18	THRUST,IDL	LB	0.0	79108.4	KN	0.0	351.890
WIND D			TEMP	(R)	1250.7	1263.7	(K)	694.8	702.1	THRUST,MEA	LB		0.0	KN	0.0	
WIND V	0MPH	0.0M/S	RHO	LB/FT3	0.032	0.043	KG/M3	0.507	0.686	AREA (NOD)	SQFT	0.060	0.080	SQM	0.006	0.007
REL H	70.0%		VEL	FPS	0.0	2081.1	M/S	0.0	634.3	W (MODEL)	LB/S	0.0	8.5	KG/S	0.0	3.9

FAA DAY

1/3 OCTAVE BAND ENGINE JET NOISE DATA 150.0FT RADIUS (SCALED ENGINE)

BAND CENTER FREQ (KHZ)	MICROPHONE ANGLES IN DEGREES 60	70	80	90	100	110	120	130	140	150	160	POW 1E-12
.050	106.2	105.2	105.8	107.8	108.1	110.1	112.9	119.1	125.1	129.0	127.3	
.063	105.6	105.5	106.7	108.3	109.1	110.6	113.1	120.6	126.6	129.7	126.6	164.
.080	106.7	106.6	107.4	108.9	110.5	112.9	115.6	122.5	128.5	130.1	127.8	164.
.100	109.3	108.5	109.6	110.8	112.1	113.7	116.3	122.9	129.1	130.3	127.9	166.
.125	108.9	109.4	110.1	111.0	112.6	113.8	116.8	122.9	129.1	131.4	128.2	166.
.160	108.5	107.6	108.3	109.6	110.7	112.9	116.6	122.1	127.9	128.8	124.5	167.
.200	109.7	108.6	108.3	109.4	111.0	113.2	116.9	122.2	127.5	127.6	123.5	165.
.250	110.6	110.3	110.0	110.0	110.7	113.3	117.0	121.5	126.3	125.8	120.9	164.
.315	113.3	111.9	110.7	110.7	111.0	113.5	116.9	121.0	125.2	123.9	118.5	163.
.400	112.4	112.3	111.8	111.3	111.2	113.1	116.3	120.0	123.7	122.1	116.3	162.
.500	111.1	111.1	112.0	112.2	111.6	113.3	116.1	119.5	122.6	120.7	114.7	161.
.630	109.6	110.1	111.0	111.9	112.0	113.1	115.4	118.3	121.3	119.3	113.1	160.
.800	108.8	109.7	110.3	111.3	112.0	113.3	114.9	117.4	120.5	118.3	112.2	159.
1.00	108.4	109.0	109.9	110.5	111.3	113.1	114.1	116.1	119.0	117.0	111.1	159.
1.25	107.4	108.6	109.8	110.3	111.0	112.6	113.6	115.1	118.1	116.1	110.6	157.
1.60	105.8	107.6	108.6	109.2	110.0	110.9	112.6	113.6	116.8	114.7	109.2	157.
2.00	105.0	106.4	107.9	109.4	109.7	111.0	111.5	113.0	115.9	114.2	109.0	156.
2.50	104.2	106.0	107.8	108.8	109.6	110.4	111.3	112.6	115.7	113.8	108.2	155.
3.15	104.5	106.5	106.4	109.7	110.1	111.4	111.5	113.6	116.4	114.8	109.1	155.
4.00	104.5	106.4	108.1	109.7	110.4	111.8	112.6	114.1	117.0	115.3	109.4	155.
5.00	104.2	106.0	108.3	109.9	111.3	112.1	112.9	114.6	117.5	116.1	110.0	156.
6.30	104.8	106.9	109.4	110.6	112.3	113.1	114.5	116.3	119.7	118.3	111.6	156.
8.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	158.
10.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.
												0.

OAPWL = 175.

OSPL	122.0	122.1	122.8	123.6	124.4	126.0	128.4	132.8	137.9	139.0	135.8	
PNL	131.2	132.3	133.7	134.7	135.4	136.9	138.4	141.0	144.8	143.9	139.1	

200. SIDELINE

PNL	127.1	129.0	130.8	132.0	132.6	133.5	134.2	135.7	137.7	134.5	126.5	

370. SIDELINE

PNL	121.0	123.0	124.7	126.0	126.4	127.4	128.0	129.5	131.3	128.5	120.4	

800. SIDELINE

PNL	112.9	114.5	116.3	117.5	117.9	118.8	119.3	120.9	123.3	120.5	112.1	

2128. SIDELINE

PNL	101.4	102.7	103.8	104.6	104.9	105.9	107.2	109.5	111.9	109.2	100.7	

STAND X206 RIG ID 070530 TEST DATE 03/10/77 SCALE RATIO 12.0/1 RUN NUMBER 20085 CONDITION 8523

					PRIMARY	FAN		PRIMARY	FAN			PRIMARY	FAN		PRIMARY	FAN
TEMP	93°F	33.9°C	AREA	SQFT	0.0	0.0	SQM	0.0	0.0	MASS FLOW	LB/S	0.0	0.0	KG/S	0.0	0.0
PRES	30.14IN	1.02BAR	P.R.		1.00	1.78		1.00	1.78	THRUST,IDL	LB	0.0	219.9	KN	0.0	0.978
WIND D			TEMP	(R)	1956.7	1978.7	(K)	1087.1	1099.3	THRUST,MEA	LB		0.0	KN	0.0	
WIND V	0MPH	0.0M/S	RHO	LB/FT3	0.020	0.023	KG/M3	0.327	0.372	AREA (MOD)	SQFT	0.060	0.080	SQM	0.006	0.007
REL H	17%		VEL	FPS	0.0	1513.4	M/S	0.0	583.2	W (MODEL)	LB/S	0.0	3.7	KG/S	0.0	1.7

1/3 OCTAVE BAND MODEL JET NOISE DATA 15.0FT RADIUS THEORETICAL DAY SPL - (MODEL)

BAND CENTER FREQ (KHZ)	MICROPHONE ANGLES IN DEGREES 60	70	80	90	100	110	120	130	140	150	160	POWER 1E-12W
.050	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
.063	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
.080	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
.100	81.9	84.3	87.3	89.3	89.1	88.7	91.0	94.1	95.4	99.1	102.1	115.4
.125	83.9	88.2	88.4	88.8	90.8	91.3	90.4	96.1	99.1	101.2	102.9	117.3
.160	87.6	90.9	90.4	89.9	88.4	90.2	91.1	94.0	99.4	103.3	105.4	118.3
.200	87.6	88.0	88.7	90.3	90.9	91.8	94.5	97.8	103.8	107.5	108.5	121.8
.250	89.6	91.2	91.9	93.9	94.0	95.0	96.9	101.4	106.4	110.5	111.4	124.8
.315	92.8	93.1	94.2	95.7	96.3	97.3	100.3	105.4	109.1	113.0	114.9	127.7
.400	95.0	95.4	96.7	97.4	98.9	100.8	103.9	109.1	113.3	116.7	117.9	131.3
.500	96.2	97.1	97.8	99.9	100.1	101.6	105.3	110.6	116.5	119.3	117.6	133.3
.630	98.4	97.4	99.4	101.2	101.9	103.9	107.8	113.5	118.0	120.6	117.7	134.8
.800	98.5	99.4	100.4	101.9	102.8	104.7	108.3	114.8	119.3	120.9	117.3	135.6
1.00	99.6	99.4	100.8	102.5	104.4	106.6	109.9	115.9	119.7	120.8	116.7	136.1
1.25	99.8	101.1	102.0	103.6	104.8	106.9	110.3	115.8	119.8	120.5	116.2	136.6
1.60	99.7	100.5	101.7	103.1	104.5	106.9	110.4	115.2	118.4	120.1	117.7	135.3
2.00	99.2	99.7	101.1	103.2	104.6	106.9	110.7	114.5	116.6	118.2	115.6	133.9
2.50	98.7	99.8	101.2	102.9	104.8	107.3	110.8	114.0	115.3	117.3	115.3	133.3
3.15	98.7	99.7	101.0	103.0	104.8	107.5	110.6	113.0	114.3	116.3	113.3	132.5
4.00	98.5	99.3	100.7	102.8	104.7	107.3	110.4	112.0	113.4	114.8	111.5	131.6
5.00	98.0	98.3	99.8	102.0	104.0	106.6	109.4	110.8	111.7	112.6	109.0	130.2
6.30	97.0	97.7	99.3	101.5	103.4	106.3	108.7	109.8	110.5	110.7	106.9	129.1
8.00	95.5	96.9	98.7	100.8	102.6	105.2	107.5	108.1	108.9	108.6	105.2	127.7
10.0	94.3	96.2	98.1	100.0	101.9	104.5	106.5	106.8	107.4	107.0	104.2	126.5
12.5	93.6	94.9	96.9	99.3	100.9	103.5	104.9	105.0	105.3	105.7	103.3	125.1
16.0	92.5	94.0	96.3	98.2	100.1	102.5	103.8	103.5	103.8	104.7	102.8	123.9
20.0	90.4	92.7	94.6	96.6	98.7	100.5	102.2	101.7	101.9	103.1	101.6	122.2
25.0	89.5	91.4	93.8	96.4	98.0	100.0	100.6	100.7	100.9	102.3	101.4	121.4
31.5	88.5	91.0	93.2	95.5	97.1	98.7	100.0	99.8	100.4	101.8	100.3	120.5
40.0	88.9	91.2	93.6	96.0	97.2	99.4	99.6	100.3	100.7	102.6	101.1	120.9
50.0	88.8	91.2	93.3	95.8	97.2	99.1	100.2	100.3	100.6	102.6	101.1	121.0
63.0	88.6	90.9	93.4	95.9	97.5	99.1	100.3	100.3	100.4	102.8	101.2	121.0
80.0	89.5	91.8	94.4	96.4	98.6	99.7	101.2	101.3	102.5	104.5	102.7	122.2
100.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

OAPWL = 145.4

OSPL 110.6 111.3 112.8 114.6 116.2 118.5 121.4 125.1 128.3 130.0 127.9

STAND X206 RIG ID 670530 TEST DATE 03/10/77 SCALE RATIO 12.0/1 RUN NUMBER 2008 CONDITION 8523

					PRIMARY	FAN		PRIMARY	FAN				PRIMARY	FAN		PRIMARY	FAN
TEMP	77.0(F)	25.0(C)	AREA	SQFT	8.640	11.520	SQM	0.803	1.070	MASS FLOW	LB/S	4.3	532.8	KG/S	2.0	241.7
PRES	30.143N	1.02BAR	P.R.		1.00	1.76		1.00	1.78	THRUST,IDL	LB	0.0	31660.7	KN	0.0	140.833
WIND D			TEMP	(R)	1956.7	1978.7	(K)	1087.1	1099.3	THRUST,MEA	LB		0.0	KN	0.0	
WIND V	OMPH	0.0M/S	RHO	LB/FT3	0.020	0.023	KG/M3	0.327	0.372	AREA (MOD)	SQFT	0.060	0.080	SQM	0.006	0.007
REL H	70.0%		VEL	FPS	0.0	1913.4	M/S	0.0	583.2	W (MODEL)	LB/S	0.0	3.7	KG/S	0.0	1.7

FAA DAY

1/3 OCTAVE BAND ENGINE JET NOISE DATA 150.0FT RADIUS (SCALED ENGINE)

BAND CENTER FREQ (KHZ)	MICROPHONE ANGLES IN DEGREES 60	70	80	90	100	110	120	130	140	150	160	POWER 1E-12
.050	100.0	99.0	101.0	102.8	103.5	105.5	109.4	115.1	119.6	122.2	119.3	
.063	100.1	101.0	102.0	103.5	104.4	106.3	109.9	116.4	120.9	122.5	118.9	
.080	101.2	101.0	102.4	104.1	106.0	108.2	111.5	117.5	121.3	122.4	120.3	
.100	101.4	102.7	103.6	105.2	106.4	108.5	111.9	117.4	121.4	122.1	119.8	
.125	101.3	102.1	103.3	104.7	106.1	108.5	112.0	116.8	120.0	121.7	119.3	
.160	100.7	101.2	102.6	104.7	106.1	108.4	112.2	116.0	118.1	119.7	117.1	
.200	100.2	101.3	102.7	104.4	106.3	108.8	112.3	115.5	116.8	118.8	116.8	
.250	100.2	101.2	102.5	104.5	106.3	109.0	112.1	114.5	115.8	117.8	114.8	
.315	100.0	100.8	102.2	104.3	106.2	108.8	111.9	113.5	114.9	116.3	113.0	
.400	99.5	99.8	101.3	103.5	105.5	108.1	110.9	112.3	113.2	114.1	110.5	
.500	98.4	99.1	100.7	102.9	104.8	107.7	110.1	111.2	111.9	112.1	108.3	
.630	96.9	98.3	100.1	102.2	104.0	106.6	108.9	109.5	110.3	110.0	106.6	
.800	95.7	97.6	99.5	101.4	103.3	105.9	107.9	108.2	108.8	108.4	105.6	
1.00	94.9	96.2	98.2	100.6	102.2	104.8	106.2	106.3	106.6	107.0	104.6	
1.25	93.7	95.2	97.5	99.4	101.3	103.7	105.0	104.7	105.0	105.9	104.0	
1.60	91.5	93.8	95.7	97.7	99.8	101.6	103.3	102.8	103.0	104.2	102.7	
2.00	90.6	92.5	94.9	97.5	99.1	101.1	101.7	101.8	102.0	103.4	102.5	
2.50	89.4	91.9	94.1	96.4	98.0	99.6	100.9	100.7	101.3	102.7	101.2	
3.15	89.6	91.9	94.3	96.7	97.9	100.1	100.3	101.0	101.4	103.3	101.8	
4.00	89.3	91.7	93.8	96.3	97.7	99.6	100.7	100.8	101.1	103.1	101.6	
5.00	88.9	91.2	93.7	96.2	97.8	99.4	100.6	100.6	100.7	103.1	101.5	
6.30	89.5	91.8	94.4	96.4	98.6	99.7	101.2	101.3	102.5	104.5	102.7	
8.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
10.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	

OAPWL = 167.9

OSPL	111.5	112.3	113.8	115.7	117.3	119.6	122.6	126.3	129.2	130.7	128.1	
PNL	118.1	119.7	121.7	123.9	125.4	127.6	129.4	131.0	132.5	133.9	131.6	
				200. SIDELINE								
PNL	114.1	116.5	118.9	121.2	122.6	124.4	125.4	125.9	125.9	124.9	119.0	
				370. SIDELINE								
PNL	108.2	110.5	112.9	115.3	116.7	118.4	119.6	120.2	120.1	119.0	112.9	
				800. SIDELINE								
PNL	100.4	102.4	104.7	107.0	108.5	110.3	111.9	112.6	112.4	111.1	104.5	
				2128. SIDELINE								
PNL	89.2	91.2	93.5	95.8	97.4	99.2	100.9	101.8	101.7	100.1	92.9	

STAND X206 RIG ID 070530 TEST DATE 03/10/77 SCALE RATIO 12.0/1 RUN NUMBER 20085 CONDITION 8>24

					PRIMARY	FAN		PRIMARY	FAN			PRIMARY	FAN		PRIMARY	FA
TEMP	93°F	33.9°C	AREA	SQFT	0.0	0.0	SQM	0.0	0.0	MASS FLOW	LB/S	0.0	0.0	KG/S	0.0	0.
PRES	30.24IN	1.023AR	P.R.		0.98	2.49		0.98	2.49	THRUST,IDL	LB	0.0	385.1	KN	0.0	1.7
WIND D			TEMP	(R)	1952.7	1970.7	(K)	1084.8	1094.8	THRUST,MEA	LB		0.0	KN	0.0	
WIND V	0MPH	0.0M/S	RHO	LB/FT3	0.020	0.025	KG/M3	0.327	0.405	AREA (MOD)	SQFT	0.060	0.080	SQM	0.006	0.00
REL H	17 %		VEL	FPS	0.0	2352.9	M/S	0.0	717.2	W (MODEL)	LB/S	0.0	5.3	KG/S	0.0	2.

1/3 OCTAVE BAND MODEL JET NOISE DATA 15.0FT RADIUS THEORETICAL DAY SPL - (MODEL

BAND CENTER FREQ (KHZ)	MICROPHONE ANGLES IN DEGREES 60	70	80	90	100	110	120	130	140	150	160	P 1E-
.050	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
.063	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
.080	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
.100	87.4	90.0	93.0	94.2	93.6	93.2	95.4	98.4	100.2	104.3	107.4	12
.125	88.4	91.4	91.9	94.0	96.2	96.3	94.5	99.8	103.4	106.3	108.6	12
.160	93.3	95.9	94.5	94.3	93.9	95.3	95.8	98.3	104.2	108.8	111.4	12
.200	92.6	91.8	92.7	94.7	96.0	96.9	99.1	102.5	108.7	113.2	114.2	12
.250	94.3	95.0	95.7	97.9	98.4	99.8	101.4	105.6	111.4	115.9	117.2	12
.315	97.0	96.1	97.9	100.1	101.3	102.0	104.4	110.2	114.1	118.7	120.7	13
.400	100.1	99.6	100.4	101.3	103.2	105.2	108.3	113.6	118.4	122.1	123.6	13
.500	102.6	101.3	101.9	103.6	104.2	105.9	109.3	115.4	121.9	125.2	122.5	13
.630	103.5	101.7	103.5	105.3	106.1	108.3	112.1	119.1	124.0	126.5	123.1	14
.800	102.9	103.8	104.6	106.2	107.3	109.0	113.3	120.9	125.6	126.7	123.0	14
1.00	104.6	104.4	105.2	107.1	108.8	111.3	115.5	123.2	126.9	126.8	124.1	14
1.25	105.1	105.9	106.9	108.4	109.9	111.9	116.1	123.8	127.5	127.1	123.8	14
1.60	105.4	106.1	107.1	108.5	110.0	112.3	116.3	124.1	127.7	128.1	124.0	14
2.00	105.0	104.9	106.2	108.2	109.7	112.3	116.7	123.5	127.0	126.0	121.1	14
2.50	104.6	105.2	106.1	108.1	110.1	112.6	117.3	123.1	126.6	124.5	119.5	14
3.15	104.7	105.1	106.3	108.2	110.3	113.2	117.3	122.4	125.8	122.7	117.2	14
4.00	104.1	104.7	106.2	108.0	110.4	113.3	117.3	121.8	124.2	120.6	114.9	13
5.00	104.4	104.2	105.5	107.7	109.9	113.0	116.5	120.8	122.4	118.8	112.9	13
6.30	104.4	104.2	105.6	107.7	109.8	112.9	116.3	120.3	121.3	117.4	111.4	13
8.00	102.9	104.0	105.4	107.3	109.2	112.5	115.4	119.0	120.1	116.0	110.1	13
10.0	101.7	103.6	105.0	106.8	108.8	111.9	114.7	118.0	119.0	114.8	109.2	13
12.5	101.1	102.4	104.3	106.5	108.3	111.0	113.5	116.6	117.7	113.9	108.0	13
16.0	100.1	101.7	103.8	105.9	108.1	110.7	112.7	115.8	116.8	113.2	107.7	13
20.0	98.6	100.6	102.5	104.5	107.1	109.0	111.4	114.4	115.6	111.9	106.4	13
25.0	97.7	99.5	101.7	104.4	106.5	108.8	110.5	113.8	114.9	111.3	106.4	13
31.5	96.8	99.2	101.6	103.9	106.0	107.8	110.4	113.5	115.0	111.2	105.6	13
40.0	97.0	98.6	102.1	104.2	106.1	108.9	110.2	114.7	115.9	112.2	106.5	13
50.0	97.0	99.2	101.7	104.2	106.1	108.9	111.4	115.1	116.2	112.8	107.1	13
63.0	96.5	98.9	101.7	104.3	106.6	108.9	111.7	115.8	116.8	113.6	107.5	13
80.0	97.3	99.7	102.7	105.0	107.8	110.0	113.6	117.7	119.6	115.9	109.4	13
100.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
OASPL	116.5	117.0	118.4	120.4	122.2	124.8	128.3	133.9	137.0	136.6	133.4	

OAPWL = 15

STAND X206 RIG ID 670530 TEST DATE 03/10/77 SCALE RATIO 12.0/1 RUN NUMBER 2008 CONDITION 8524

				PRIMARY	FAN		PRIMARY	FAN		PRIMARY	FAN		PRIMARY	F
TEMP	77.0(F)	25.0(C)	AREA SQFT	8.640	11.520	SQM	0.803	1.070	MASS FLOW LB/S	5.8	756.9	KG/S	2.6	344
PRES	30.14IN	1.028AR	P.R.		0.98	2.49		0.98	2.49	THRUST,IDL LB	0.0	55451.6	KN	0.0	246.6
WIND D			TEMP	(R) 1952.7	1970.7	(K)	1084.8	1094.8	THRUST,MEA LB		0.0	KN	0.0	
WIND V	0MPH	0.0M/S	RHO	LB/FT3 0.020	0.025	KG/M3	0.327	0.405	AREA (MOD) SQFT	0.060	0.080	SQM	0.006	0.0
REL H	70.0%		VEL	FPS 0.0	2352.9	M/S	0.0	717.2	W (MODEL) LB/S	0.0	5.3	KG/S	0.0	2

FAA DAY 1/3 OCTAVE BAND ENGINE JET NOISE DATA 150.0FT RADIUS (SCALED ENGINE)

BAND CENTER FREQ (KHZ)	MICROPHONE ANGLES IN DEGREES 60	70	80	90	100	110	120	130	140	150	160	P 1E
.050	105.1	103.3	105.1	106.9	107.7	109.9	113.7	120.7	125.6	128.1	124.7	1
.063	104.5	105.4	106.2	107.8	108.9	110.6	114.9	122.5	127.2	128.3	124.6	1
.080	106.2	106.0	106.8	108.7	110.4	112.9	117.0	124.8	128.5	128.4	125.7	1
.100	106.7	107.5	108.5	110.0	111.5	113.5	117.7	125.4	129.1	128.7	125.4	1
.125	107.0	107.7	108.7	110.1	111.6	113.9	117.9	125.7	129.3	129.7	125.6	1
.160	106.5	106.4	107.7	109.7	111.2	113.8	118.2	125.0	128.5	127.5	122.6	1
.200	106.1	106.7	107.6	109.6	111.6	114.1	118.8	124.6	128.1	126.0	121.0	1
.250	106.2	106.6	107.8	109.7	111.8	114.7	118.8	123.9	127.3	124.2	118.7	1
.315	105.6	106.2	107.7	109.5	111.9	114.8	118.8	123.3	125.7	122.1	116.4	1
.400	105.9	105.7	107.0	109.2	111.4	114.5	118.0	122.3	123.9	120.3	114.4	1
.500	105.8	105.6	107.0	109.1	111.2	114.3	117.7	121.7	122.7	118.8	112.8	1
.630	104.3	105.4	106.8	108.7	110.6	113.9	116.8	120.4	121.5	117.4	111.5	1
.800	103.1	105.0	106.4	108.2	110.2	113.3	116.1	119.4	120.4	116.2	110.6	1
1.00	102.4	103.7	105.6	107.8	109.6	112.3	114.8	117.9	119.0	115.2	109.3	1
1.25	101.3	102.9	105.0	107.1	109.3	111.9	113.9	117.0	118.0	114.4	108.9	1
1.60	99.7	101.7	103.6	105.6	108.2	110.1	112.5	115.5	116.7	113.0	107.5	1
2.00	98.8	100.6	102.8	105.5	107.6	109.9	111.6	114.9	116.0	112.4	107.5	1
2.50	97.7	100.1	102.5	104.8	106.9	108.7	111.3	114.4	115.9	112.1	106.5	1
3.15	97.7	100.3	102.8	104.9	106.8	109.6	110.9	115.4	116.6	112.9	107.2	1
4.00	97.5	99.7	102.2	104.7	106.6	109.4	111.9	115.6	116.7	113.3	107.6	1
5.00	96.8	99.2	102.0	104.6	106.9	109.2	112.0	116.1	117.1	113.9	107.8	1
6.30	97.3	99.7	102.7	105.0	107.8	110.0	113.6	117.7	119.6	115.9	109.4	1
8.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
10.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	

OAPWL = 1

OSPL	117.5	118.1	119.5	121.4	123.3	126.0	129.5	135.1	138.3	137.5	133.5	
PNL	125.4	127.0	129.0	131.1	133.1	135.7	138.5	142.9	144.9	142.0	136.9	

200. SIDELINE

PNL	121.3	123.7	126.2	128.4	130.3	132.4	134.5	137.6	137.8	132.6	124.3	

370. SIDELINE

PNL	115.3	117.7	120.2	122.4	124.2	126.4	128.3	131.4	131.6	126.8	118.2	

800. SIDELINE

PNL	107.3	109.3	111.8	114.1	115.9	118.0	119.8	123.1	123.6	118.7	109.8	

2128. SIDELINE

PNL	96.0	97.6	99.8	102.1	103.9	106.1	108.4	111.7	112.3	107.5	98.4	

ORIGINAL PAGE IS OF POOR QUALITY

STAND X206 RIG ID 070530 TEST DATE 03/10/77 SCALE RATIO 12.0/1 RUN NUMBER 20085 CONDITION 8525

				PRIMARY	FAN		PRIMARY	FAN
TEMP	93°F	33.9°C	AREA	SQFT 0.0	0.0	SQM	0.0	0.0
PRES	30.14IN	1.02BAR	P.R.	0.93	4.07		0.93	4.07
WIND D			TEMP	(R) 1955.7	1948.7	(K)	1086.5	1082.6
WIND V	0MPH	0.0M/S	RHO	LB/FT3 0.020	0.029	KG/M3	0.322	0.461
REL H	17 %		VEL	FPS 0.0	2821.0	M/S	0.0	859.8

		PRIMARY	FAN		PRIMARY	FAN
MASS FLOW	LB/S	0.0	0.0	KG/S	0.0	0.0
THRUST,IDL	LB	0.0	755.2	KN	0.0	3.359
THRUST,MEA	LB		0.0	KN	0.0	
AREA (MOD)	SQFT	0.060	0.080	SQM	0.006	0.007
W (MODEL)	LB/S	0.1	8.6	KG/S	0.0	3.9

1/3 OCTAVE BAND MODEL JET NOISE DATA 15.0FT RADIUS THEORETICAL DAY SPL - (MODEL)

BAND CENTER FREQ (KHZ)	MICROPHONE ANGLES IN DEGREES 60	70	80	90	100	110	120	130	140	150	160	PDW 1E-1
.050	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0
.063	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0
.080	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0
.100	94.2	97.2	99.5	99.4	98.8	100.1	101.5	104.1	105.6	110.1	114.3	126
.125	94.9	97.8	98.8	101.0	102.5	102.1	100.6	105.2	108.5	112.1	115.6	128
.160	101.4	103.1	101.1	101.5	101.6	102.1	102.8	104.0	110.0	115.2	118.8	130
.200	100.2	98.7	99.5	101.0	102.0	103.5	105.1	108.5	115.3	120.1	122.2	134
.250	101.7	100.8	101.3	102.7	104.2	105.8	107.4	110.8	116.6	121.9	124.1	136
.315	102.3	101.0	103.3	105.6	107.1	107.8	110.0	115.6	119.4	124.8	127.3	139
.400	106.0	105.1	105.5	106.1	108.0	110.5	113.6	118.7	123.8	127.8	129.7	142
.500	107.0	105.4	105.6	107.4	108.-	110.4	113.6	120.0	127.1	130.7	128.0	144
.630	106.9	106.1	107.9	109.3	110.4	112.6	116.9	124.7	129.6	132.0	128.2	146
.800	107.2	107.3	108.9	110.4	111.8	113.7	118.2	126.6	131.6	132.0	127.6	147
1.00	108.5	108.1	109.-	111.1	113.3	115.7	120.6	129.1	133.1	131.9	126.0	148
1.25	109.9	109.2	110.4	111.7	113.6	116.6	122.1	130.7	133.7	131.4	125.8	148
1.60	114.8	112.6	111.4	113.3	114.2	117.6	124.0	133.5	136.4	132.9	126.0	151
2.00	116.2	113.6	112.2	112.7	114.4	117.4	123.3	131.8	132.3	128.0	122.0	148
2.50	115.1	116.2	116.0	114.4	115.4	118.3	123.8	131.6	130.8	126.8	121.3	147
3.15	114.6	115.6	117.8	118.2	116.4	119.1	124.2	131.3	130.2	125.8	119.4	147
4.00	114.6	114.6	115.5	117.3	118.1	119.6	124.3	130.1	128.7	124.1	117.5	146
5.00	113.8	113.9	114.8	116.2	118.2	119.7	123.5	128.7	127.2	122.6	115.7	145
6.30	113.0	113.4	114.8	116.1	117.5	120.1	123.4	127.9	126.1	121.4	114.1	144
8.00	111.9	113.0	114.4	115.7	117.1	119.6	122.3	126.6	125.1	119.9	112.5	143
10.0	111.4	112.6	114.1	115.4	117.0	119.4	121.9	125.7	124.3	118.9	111.3	142
12.5	110.9	112.0	113.7	114.9	116.5	118.7	120.8	124.5	122.9	117.8	110.1	141
16.0	110.2	111.7	113.5	114.6	116.2	118.2	120.2	123.9	122.1	116.9	109.4	141
20.0	108.9	110.7	112.3	113.5	114.9	116.7	119.0	122.7	120.8	115.8	108.0	139
25.0	108.3	109.9	111.9	113.7	114.7	116.8	118.3	122.1	120.2	115.4	106.0	139
31.5	108.0	110.0	112.0	113.5	114.6	116.3	118.5	121.4	120.0	115.0	107.4	139
40.0	108.6	110.7	112.5	114.2	115.2	117.5	118.8	122.5	120.7	116.1	108.6	139
50.0	109.0	110.9	113.0	114.7	115.8	118.0	120.3	122.6	121.2	116.8	109.2	140
63.0	109.1	111.1	113.5	115.2	117.0	118.7	121.1	122.9	121.2	117.5	109.6	141
80.0	110.6	112.7	115.3	116.7	118.7	120.-	123.2	124.4	123.5	119.8	111.7	142
100.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0
OSPL	125.5	125.9	127.1	128.3	129.5	131.7	135.4	141.6	142.9	141.2	137.7	OAPWL = 159.

STAND X206 RIG ID 070530 TEST DATE 03/10/77 SCALE RATIO 12.0/1 RUN NUMBER 2008 CONDITION 8525

			PRIMARY	FAN		PRIMARY	FAN			PRIMARY	FAN		PRIMARY	FAN
TEMP 77.0(F) 25.0(C)	AREA	SQFT	8.640	11.520	SQM	0.803	1.070	MASS FLOW	LB/S	10.1	1241.5	KG/S	4.6	563.0
PRES 30.14IN 1.02BAR	P.R.		0.93	4.07		0.93	4.07	THRUST,IDL	LB	0.0	10874	7.6 KN	0.0	483.731
WIND D	TEMP	(R)	1955.7	1948.7	(K)	1086.5	1082.6	THRUST,MEA	LB		0.0	KN	0.0	
WIND V OMPH 0.0M/S	RHO	LB/FT3	0.020	0.029	KG/M3	0.322	0.461	AREA (MOD)	SQFT	0.060	0.080	SQM	0.006	0.007
REL H 70.0%	VEL	FPS	0.0	2821.0	M/S	0.0	859.8	W (MODEL)	LB/S	0.1	8.6	KG/S	0.0	3.9

FAA DAY

1/3 OCTAVE BAND ENGINE JET NOISE DATA 150.0FT RADIUS (SCALED ENGINE)

BAND CENTER FREQ (KHZ) — MICROPHONE ANGLES IN DEGREES

	60	70	80	90	100	110	120	130	140	150	160	PURE TE-12
.050	108.5	107.7	109.5	110.9	112.0	114.2	118.5	126.3	131.2	133.6	129.8	
.063	108.8	108.9	110.5	112.0	113.4	115.3	119.8	128.2	133.2	133.6	129.2	169.
.080	110.1	109.7	111.0	112.7	114.9	117.3	122.2	130.7	134.7	133.5	129.6	170.
.100	111.5	110.8	112.0	113.3	115.2	118.2	123.7	132.3	135.3	133.0	127.4	171.
.125	112.4	113.6	113.6	114.9	115.8	119.2	125.6	135.1	136.0	134.5	127.6	171.
.160	117.7	115.1	113.7	114.2	115.9	118.9	124.8	133.3	133.8	129.5	123.5	174.
.200	116.6	117.7	117.5	115.9	116.9	119.8	125.3	133.1	132.3	126.3	122.8	171.
.250	118.1	117.1	119.3	119.7	117.9	120.6	125.7	132.8	131.7	127.3	120.9	170.
.315	116.1	116.1	117.6	116.8	119.6	121.1	125.8	131.6	130.2	125.6	119.0	170.
.400	115.3	115.4	116.3	117.7	119.7	121.2	125.0	130.2	128.7	124.1	117.2	169.
.500	114.4	114.8	116.2	117.5	118.9	121.5	124.8	129.3	127.5	122.8	115.5	168.
.630	113.3	114.4	115.8	117.1	118.5	121.0	123.7	128.0	126.5	121.3	113.9	167.
.800	112.8	114.0	115.5	116.8	118.4	120.8	123.3	127.1	125.7	120.3	112.7	166.
1.00	112.2	113.3	115.0	116.2	117.8	120.0	122.1	125.8	124.2	119.1	111.4	165.
1.25	111.4	112.9	114.7	115.8	117.4	119.4	121.4	125.1	123.3	118.1	110.6	164.
1.60	110.0	111.8	113.4	114.6	116.0	117.8	120.1	123.8	121.9	116.9	109.1	163.
2.00	109.4	111.0	113.0	114.8	115.8	117.9	119.4	123.2	121.3	116.5	109.1	162.
2.50	108.9	110.9	112.9	114.4	115.5	117.2	119.4	122.3	120.9	115.9	108.3	162.
3.15	109.3	111.4	113.2	114.9	115.9	118.2	119.5	123.2	121.4	116.8	109.3	161.
4.00	109.5	111.4	113.5	115.2	116.3	118.5	120.8	123.1	121.7	117.3	109.7	162.
5.00	109.4	111.4	113.8	115.5	117.3	119.0	121.4	123.2	121.5	117.8	109.9	162.
6.30	110.6	112.7	115.3	116.7	118.7	120.4	123.2	124.4	123.5	119.8	111.7	162.
8.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	164.
10.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
												0.0

OSPL	126.7	127.0	128.2	129.4	130.5	132.8	136.6	143.0	144.2	141.8	136.7	OAPWL = 162.0
PNL	135.9	137.1	138.9	140.3	141.6	143.7	146.6	150.6	149.8	146.0	139.2	

200. SIDELINE

PNL	131.8	133.9	136.0	137.6	138.7	140.3	142.4	145.3	143.0	136.9	126.6

370. SIDELINE

PNL	125.7	127.8	129.9	131.4	132.5	134.2	136.2	139.2	137.2	131.0	120.5

800. SIDELINE

PNL	117.2	119.3	121.4	123.0	124.0	125.6	127.4	131.1	129.3	122.9	112.2

2128. SIDELINE

PNL	105.5	107.1	109.3	110.5	111.6	113.0	115.6	119.9	118.3	111.7	100.8

STAND X206 RIG ID 705308 TEST DATE 03/11/77 SCALE RATIO 0.0/1 RUN NUMBER 20086 CONDITION 8603

					PRIMARY	FAN		PRIMARY	FAN			PRIMARY	FAN		PRIMARY	FAN
TEMP	86°F	30°C	AREA	SQFT	0.0	0.0	SQM	0.0	0.0	MASS FLOW	LB/S	0.0	0.0	KG/S	0.0	0.0
PRES	30.311N	1.038AR	P.R.		1.52	1.30		1.52	1.30	THRUST,IDL	LB	97.0	92.2	KN	0.431	0.410
WIND D			TEMP	(R)	1460.7	1265.7	(K)	811.5	703.2	THRUST,MEA	LB		0.0	KN	0.0	
WIND V	0MPH	0.0M/S	RHO	LB/FT3	0.030	0.034	KG/M3	0.488	0.542	AREA (MOD)	SQFT	0.060	0.080	SQM	0.006	0.007
REL H	2/9.		VEL	FPS	1406.5	1049.6	M/S	428.7	319.9	W (MODEL)	LB/S	2.2	2.8	KG/S	1.0	1.3

1/3 OCTAVE BAND MODEL JET NOISE DATA 15.0FT RADIUS THEORETICAL DAY SPL - (MODEL)

BAND CENTER FREQ (KHZ)	MICROPHONE ANGLES IN DEGREES 60	70	80	90	100	110	120	130	140	150	160	POWER 1E-12W
.050	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
.063	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
.080	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
.100	76.4	79.9	82.3	83.1	82.3	83.2	85.8	88.1	90.0	93.2	96.9	109.7
.125	77.7	82.2	82.2	83.0	84.7	85.1	84.7	88.8	92.9	95.0	97.6	111.3
.160	82.2	85.5	83.6	83.6	82.7	83.7	84.9	87.2	93.0	96.9	99.8	112.2
.200	81.3	81.6	82.0	83.4	85.0	86.0	88.5	90.7	97.2	101.2	102.8	115.6
.250	82.7	83.6	84.4	86.2	87.2	88.3	90.4	93.5	99.2	103.4	105.3	117.4
.315	85.2	85.0	88.9	87.3	88.9	89.9	92.5	96.3	101.0	105.3	108.0	120.0
.400	87.5	88.0	89.6	89.7	91.8	93.4	96.0	99.5	104.5	108.4	111.2	123.2
.500	90.5	89.7	90.3	91.9	92.8	93.9	96.8	100.1	106.9	110.6	110.6	124.6
.630	90.6	90.7	91.1	92.7	93.7	95.2	98.3	102.2	107.7	111.1	111.2	125.4
.800	90.2	92.1	92.3	93.1	94.8	95.6	98.6	102.5	108.3	111.6	110.9	125.8
1.00	90.5	90.7	91.5	92.6	95.1	96.8	99.3	103.0	108.3	109.8	109.6	125.8
1.25	89.1	90.8	91.4	92.4	95.2	96.2	99.2	102.7	106.8	107.7	106.1	125.5
1.60	88.3	89.9	90.9	92.0	94.6	95.7	98.9	102.0	105.6	105.1	103.2	125.1
2.00	87.7	89.3	90.5	91.9	94.5	95.6	98.8	101.7	104.0	102.1	99.1	124.7
2.50	87.0	88.7	90.1	91.5	94.3	95.3	98.6	101.1	102.2	99.1	96.2	124.5
3.15	86.5	88.3	89.4	90.9	93.9	95.0	97.8	99.8	100.2	96.1	91.9	124.2
4.00	85.9	87.6	88.8	90.3	93.1	94.3	97.0	98.3	97.6	92.3	88.1	123.7
5.00	85.3	86.6	87.8	89.3	92.0	92.8	95.5	96.5	94.6	89.5	84.5	123.6
6.30	84.3	85.7	87.0	88.5	91.3	92.0	94.5	94.8	92.8	87.2	82.3	123.7
8.00	82.7	84.6	85.9	87.4	90.1	90.9	93.0	92.8	90.5	85.6	80.5	123.2
10.0	81.4	83.3	84.8	86.2	88.9	89.4	91.5	90.8	88.7	84.2	79.2	122.7
12.5	80.6	82.3	83.2	85.0	87.4	88.1	89.9	88.9	87.0	82.9	78.2	122.2
16.0	79.3	81.2	82.8	84.1	86.6	87.1	88.4	87.6	86.0	81.9	77.4	122.1
20.0	77.8	79.7	81.0	82.1	84.9	85.2	86.6	85.4	84.3	80.4	75.9	122.2
25.0	76.7	78.5	80.0	81.7	83.9	84.6	85.3	84.2	83.2	79.8	76.0	122.3
31.5	76.0	78.0	79.8	81.0	83.5	83.4	84.7	83.6	82.6	79.0	75.1	122.6
40.0	75.8	78.3	79.8	81.2	83.3	84.1	84.3	83.6	82.6	80.1	76.7	122.7
50.0	75.7	78.0	79.4	80.9	83.1	83.8	84.4	83.6	82.5	80.4	78.2	122.6
63.0	75.3	77.5	79.2	80.5	83.0	83.3	84.3	83.5	83.0	82.0	79.2	122.6
80.0	76.2	78.0	80.1	81.0	83.7	83.7	85.0	84.3	85.3	84.0	81.5	123.5
100.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
OSPL	100.3	101.5	102.4	103.6	105.8	106.9	109.6	112.4	116.6	118.8	119.1	OAPWL = 134.1

5.1E-1

STAND X206 RIG ID 705308 TEST DATE 03/11/77 SCALE RATIO 12.0/1 RUN NUMBER 2008 CONDITION 6601

			PRIMARY	FAN		PRIMARY	FAN			PRIMARY	FAN		PRIMARY	FAN
TEMP 77.0(F) 25.0(C)	AREA	SQFT	8.640	11.520	SQM	0.803	1.070	MASS FLOW	LB/S	319.7	407.5	KG/S	145.0	184.9
PRES 30.31IN 1.03BAR	P.R.		1.52	1.30		1.52	1.30	THRUST,IDL	LB	13963.5	13283.5	KN	62.113	59.086
WIND D	TEMP	(R)	1460.7	1265.7	(K)	811.5	703.2	THRUST,MEA	LB		0.0	KN	0.0	
WIND V CMPH 0.0M/S	RHO	LB/FT3	0.030	0.034	KG/M3	0.488	0.542	AREA (MOD)	SQFT	0.060	0.080	SQM	0.006	0.007
REL H 70.0%	VEL	FPS	1406.5	1049.6	M/S	428.7	319.9	W (MODEL)	LB/S	2.2	2.8	KG/S	1.0	1.3

FAA DAY 1/3 OCTAVE BAND ENGINE JET NOISE DATA 150.0FT RADIUS (SCALED ENGINE)

BAND CENTER FREQ (KHZ)	MICROPHONE ANGLES IN DEGREES 60	70	80	90	100	110	120	130	140	150	160	POWER 1E-12W
.050	92.2	92.3	92.7	94.3	95.3	96.8	99.9	103.8	109.3	112.7	112.8	148.5
.063	91.8	93.7	93.9	94.7	96.4	97.2	99.6	104.1	109.9	113.2	112.5	148.9
.080	92.1	92.3	93.1	94.2	96.7	98.4	100.9	104.6	109.9	111.4	111.2	146.2
.100	90.7	92.4	93.0	94.0	96.8	97.3	100.8	104.3	108.4	109.3	107.7	146.6
.125	89.9	91.5	92.5	93.6	96.2	97.3	100.5	103.6	107.2	106.7	104.8	145.2
.160	89.2	90.8	92.0	93.4	96.0	97.1	100.3	103.2	105.5	103.6	100.6	143.8
.200	88.5	90.2	91.6	93.0	95.8	96.8	100.1	102.6	103.7	100.6	97.7	142.6
.250	88.0	89.8	90.9	92.4	95.4	96.5	99.3	101.3	101.7	97.6	93.4	141.3
.315	87.4	89.1	90.3	91.8	94.6	95.8	98.5	99.8	99.1	93.5	89.6	139.8
.400	86.8	88.1	89.3	90.8	93.5	94.3	97.0	98.0	96.1	91.0	86.0	138.0
.500	85.7	87.1	88.4	89.9	92.7	93.4	95.9	96.2	94.2	88.6	83.7	136.7
.630	84.1	86.0	87.3	88.8	91.5	92.3	94.4	94.2	91.9	87.0	81.9	135.2
.800	82.8	84.7	86.2	87.6	90.3	90.8	92.9	92.2	90.1	85.6	80.6	133.6
1.00	81.9	83.6	84.5	86.3	86.7	89.4	91.2	90.2	88.3	84.2	79.5	132.1
1.25	80.5	82.4	84.0	85.3	87.6	88.3	89.6	88.8	87.2	83.1	78.6	130.9
1.60	78.9	80.8	82.1	83.2	86.0	86.3	87.7	86.5	85.4	81.5	77.0	129.0
2.00	77.8	79.6	81.1	82.8	85.0	85.7	86.4	85.3	84.3	80.9	77.1	127.9
2.50	76.9	78.9	80.7	81.9	84.4	84.3	85.6	84.5	83.5	79.9	76.0	127.1
3.15	76.5	79.0	80.5	81.9	84.0	84.8	85.0	84.3	83.3	80.8	77.4	127.0
4.00	76.2	78.5	79.9	81.4	83.6	84.3	84.9	84.1	83.0	80.9	78.7	126.6
5.00	75.6	77.8	79.5	80.8	83.3	83.6	84.6	83.8	83.3	82.3	79.5	126.4
6.30	76.2	78.0	80.1	81.0	83.7	83.7	85.0	84.3	85.3	84.0	81.5	127.0
8.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

OAPWL = 155.8

OSPL	100.6	102.0	102.9	104.1	106.6	107.6	110.4	113.2	117.0	118.5	117.9	
PNL	105.7	107.6	109.0	110.3	112.7	113.5	115.5	116.8	117.8	116.9	115.1	
200. SIDELINE												
PNL	101.7	104.4	106.2	107.7	109.9	110.3	111.6	111.8	111.3	108.1	102.8	
370. SIDELINE												
PNL	95.8	98.4	100.2	101.7	104.0	104.4	105.9	106.1	105.5	102.3	97.0	
800. SIDELINE												
PNL	87.9	90.4	92.2	93.8	96.3	96.7	98.2	98.5	98.0	94.7	89.2	
2128. SIDELINE												
PNL	76.5	79.2	81.0	82.6	85.2	85.7	87.3	87.7	87.4	83.9	77.3	

STAND X206 RIG ID 705308 TEST DATE 03/11/77 SCALE RATIO 12.0/1 RUN NUMBER 20086 CONDITION 8602

					PRIMARY	FAN		PRIMARY	FAN			PRIMARY	FAN		PRIMARY	FAN
TEMP	87°F	30.6°C	AREA	SQFT	0.0	0.0	SQM	0.0	0.0	MASS FLOW	LB/S	0.0	0.0	KG/S	0.0	0.0
PRES	30.31IN	1.038AR	P.R.		1.53	1.80		1.53	1.80	THRUST,IDL	LB	97.7	222.9	KG	0.434	0.991
WIND D			TEMP	(R)	1459.7	1268.7	(K)	810.9	704.8	THRUST,MEA	LB		0.0	KG	0.0	
WIND V	0MPH	0.0M/S	RHO	LB/FT3	0.031	0.037	KG/M3	0.489	0.588	AREA (MOD)	SQFT	0.060	0.080	SQM	0.006	0.007
REL H	21%		VEL	FPS	1416.4	1536.7	M/S	431.7	468.4	W (MODEL)	LB/S	2.2	4.7	KG/S	1.0	2.1

1/3 OCTAVE BAND MODEL JET NOISE DATA 15.0FT RADIUS THEORETICAL DAY SPL - (MODEL)

BAND CENTER FREQ (KHZ)	MICROPHONE ANGLES IN DEGREES 60	70	80	90	100	110	120	130	140	150	160	POWER 1E-12W
.050	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
.063	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
.080	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
.100	81.4	84.9	87.2	87.5	87.0	88.2	90.7	92.7	94.7	98.0	101.9	0.0
.125	82.6	87.1	86.9	87.8	89.8	90.2	89.6	93.1	97.3	99.6	102.4	0.0
.160	87.3	90.3	88.2	88.3	87.3	88.8	90.1	91.6	97.3	101.0	104.4	11[illegible].6
.200	86.1	86.8	87.3	88.7	89.8	91.0	93.6	95.4	101.5	105.3	107.[illegible]	115.8
.250	87.6	88.3	89.4	90.8	91.9	93.2	95.7	98.3	103.7	107.5	110.0	116.6
.315	89.6	89.7	93.5	92.0	93.8	95.0	97.6	101.3	105.9	110.0	112.9	120.0
.400	92.4	92.8	94.2	94.5	96.4	98.[illegible]	101.2	104.8	110.0	113.3	116.1	122.3
.500	94.9	94.5	94.9	96.2	97.3	99.1	102.1	105.5	112.5	115.8	115.1	124.8
.630	95.7	95.8	95.8	97.6	98.6	100.4	103.8	107.6	113.1	116.2	116.1	126.2
.800	94.6	96.6	96.8	98.0	99.8	100.8	103.4	107.9	113.1	116.2	115.7	127.8
1.00	95.6	96.1	96.5	97.8	100.3	102.1	105.0	108.2	112.8	114.3	115.0	128.5
1.25	94.5	95.9	96.9	97.8	100.2	101.8	104.9	108.0	111.4	112.0	112.1	128.3
1.60	93.6	95.2	96.4	97.6	100.2	101.7	104.7	107.6	110.1	109.9	109.7	126.4
2.00	93.7	95.3	96.5	98.0	100.4	101.9	105.1	107.4	109.0	108.0	107.3	127.3
2.50	93.5	95.3	96.4	97.9	100.6	102.1	105.4	107.3	108.1	106.5	106.4	126.4
3.15	93.4	94.9	96.2	97.6	100.7	102.1	105.2	106.4	106.9	105.3	104.5	126.0
4.00	93.1	94.7	96.0	97.4	100.3	101.8	105.0	105.8	105.5	103.7	102.9	125.3
5.00	93.0	94.1	95.3	96.7	99.7	101.1	104.1	104.3	103.6	101.9	100.9	124.7
6.30	92.4	93.6	94.9	96.6	99.5	100.9	103.6	103.7	103.0	100.5	99.4	123.[illegible]
8.00	91.6	93.0	94.3	95.8	98.6	100.0	102.6	102.4	101.4	99.1	98.1	122.9
10.0	90.0	92.3	93.5	95.1	98.0	99.2	101.7	101.1	100.2	98.0	97.0	121.8
12.5	89.5	91.2	92.5	94.3	97.0	98.3	100.5	99.5	98.6	97.0	95.9	120.8
16.0	88.6	90.4	92.1	93.4	96.3	97.5	99.4	98.7	97.6	96.0	95.3	119.6
20.0	86.9	89.0	90.5	91.9	95.1	95.8	98.0	96.8	96.1	94.6	93.7	118.7
25.0	85.5	87.6	89.7	91.4	94.0	95.3	96.5	95.5	94.9	93.5	92.9	117.2
31.5	85.0	87.3	89.2	90.6	93.6	94.3	96.1	95.0	94.5	92.6	91.6	116.2
40.0	85.0	87.6	89.5	90.9	93.7	94.8	95.7	95.3	94.5	93.0	91.9	1[illegible].5
50.0	85.0	87.7	89.1	91.0	93.6	94.7	96.2	95.2	94.4	92.6	91.6	115.7
63.0	84.7	87.2	89.1	90.7	93.8	94.4	95.7	95.2	93.8	92.8	91.2	115.7
80.0	86.0	88.0	90.4	91.6	94.7	94.9	96.7	95.6	95.7	94.2	92.6	116.5
100.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	116.5
												0.0
OSPL	106.2	107.5	108.6	109.8	112.3	113.7	116.5	118.5	121.9	123.8	124.3	OAPWL = 134.7

5.1E-3

20086F TAPE P7493 NASA VSCE (NAS3-20061) CONFIG. E

STAND X206 RIG ID 705309 TEST DATE 03/11/77 SCALE RATIO 12.0/1 RUN NUMBER 2008 CONDITION 8602

				PRIMARY	FAN		PRIMARY	FAN			PRIMARY	FAN		PRIMARY	FAN
TEMP	77.0(F)	25.0(C)	AREA	SQFT	8.640	11.520	SQM	0.803	1.070	MASS FLOW	LB/S	319.7	672.5	KG/S	145.0	305.0
PRES	30.31IN	1.03BAR	P-R-		1.53	1.80		1.53	1.80	THRUST,IDL	LB	14061.7	32092.6	KN	62.549	142.754
WIND D			TEMP	(R)	1459.7	1268.7	(K)	810.9	704.8	THRUST,MEA	LB		0.0	KN	0.0	
WIND V	0MPH	0.0M/S	RHO	LB/FT3	0.031	0.037	KG/M3	0.489	0.588	AREA (MOD)	SQFT	0.060	0.080	SQM	0.006	0.007
REL H	70.0%		VEL	FPS	1416.4	1536.7	M/S	431.7	468.4	W (MODEL)	LB/S	2.2	4.7	KG/S	1.0	2.1

FAA DAY

1/3 OCTAVE BAND ENGINE JET NOISE DATA 150.0FT RADIUS (SCALED ENGINE)

BAND CENTER FREQ (KHZ)	MICROPHONE ANGLES IN DEGREES 60	70	80	90	100	110	120	130	140	150	160	POWER 1E-12W
.050	97.3	97.4	97.4	99.2	100.2	102.0	105.4	109.2	114.7	117.8	117.7	
.063	96.2	96.2	96.4	99.6	101.4	102.4	105.0	109.5	114.7	117.8	117.3	153.7
.080	97.2	97.7	98.1	99.4	101.9	103.7	106.6	109.8	114.4	115.9	116.6	153.7
.100	96.1	97.5	98.5	99.4	101.8	103.4	106.5	109.6	113.0	113.6	113.7	153.0
.125	95.2	96.8	98.0	99.2	101.8	103.3	106.3	109.2	111.7	111.5	111.3	151.6
.160	95.2	96.8	98.0	99.5	101.9	103.4	106.6	108.9	110.5	109.5	108.8	150.4
.200	95.0	96.8	97.9	99.4	102.1	103.6	106.9	108.8	109.6	108.0	107.9	149.6
.250	94.9	96.4	97.7	99.1	102.2	103.6	106.7	107.9	108.4	106.8	106.6	149.2
.315	94.6	96.2	97.5	98.9	101.8	103.3	106.5	107.3	107.0	105.2	104.4	148.4
.400	94.5	95.6	96.8	98.2	101.2	102.6	105.6	105.8	105.3	103.4	102.4	147.7
.500	93.6	95.0	96.3	98.0	100.9	102.3	105.0	105.1	104.4	101.9	100.8	146.5
.630	92.4	94.4	95.7	97.2	100.0	101.4	104.0	103.8	102.6	100.5	99.5	145.4
.800	91.4	93.7	94.9	96.5	99.4	100.6	103.1	102.5	101.6	99.4	98.4	144.8
1.00	90.8	92.5	93.8	95.6	98.3	99.6	101.8	100.8	99.9	98.3	97.2	143.8
1.25	89.8	91.6	93.3	94.6	97.5	98.7	100.6	99.9	98.8	97.2	96.5	142.5
1.60	88.0	90.1	91.6	93.0	96.2	96.9	99.1	97.9	97.2	95.7	94.8	141.0
2.00	86.6	88.7	90.6	92.5	95.1	96.4	97.6	96.6	96.0	94.6	94.0	139.9
2.50	85.9	88.2	90.1	91.5	94.5	95.2	97.0	95.9	95.4	93.5	92.5	139.2
3.15	85.7	88.3	90.2	91.6	94.4	95.5	96.4	96.0	95.2	93.7	92.6	138.6
4.00	85.5	88.2	89.6	91.5	94.1	95.2	95.7	95.7	94.9	93.1	92.1	137.9
5.00	85.0	87.5	89.4	91.0	94.1	94.7	96.0	95.5	94.1	93.1	91.5	137.7
6.30	86.0	88.0	90.4	91.6	94.7	94.9	96.7	95.6	95.7	94.2	92.6	137.4
8.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	135.0
10.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

5.1E-4

OAPWL = 161.6

OSPL	106.8	108.2	109.3	110.7	113.2	114.6	117.5	119.4	122.2	123.6	123.5	
PNL	113.9	115.9	117.4	118.9	121.7	122.8	124.8	125.0	125.4	124.8	124.5	
				200. SIDELINE								
PNL	109.8	112.6	114.6	116.2	118.8	119.6	120.8	119.9	118.8	115.9	112.0	
				370. SIDELINE								
PNL	103.8	106.6	108.6	110.2	112.9	113.6	114.7	114.1	113.0	110.0	106.0	
				800. SIDELINE								
PNL	95.8	98.3	100.3	102.0	104.6	105.2	107.0	106.3	105.2	102.2	97.9	
				2128. SIDELINE								
PNL	84.3	87.0	88.9	90.5	93.2	94.0	95.7	95.3	94.3	91.2	86.4	

20086F TAPE P7493 NASA VSCE (NAS3-20061) CONFIG. E 15.2049

STAND X206 RIG ID 705308 TEST DATE 03/11/77 SCALE RATIO 12.0/1 RUN NUMBER 20086 CONDITION 6663

					PRIMARY	FAN		PRIMARY	FAN			PRIMARY	FAN		PRIMARY	FAN
TEMP	81°F	30.6°C	AREA	SQFT	0.0	0.0	SQM	0.0	0.0	MASS FLOW	LB/S	0.0	0.0	KG/S	0.0	0.0
PRES	30.31IN	1.036AR	P.R.		1.52	2.48		1.52	2.48	THRUST,IDL	LB	100.3	350.3	KN	0.446	1.691
WIND D			TEMP	(R)	1473.7	1272.7	(K)	818.7	707.1	THRUST,MEA	LB		0.0	KN	0.0	
WIND V	0MPH	0.0M/S	RHO	LB/FT3	0.080	0.040	KG/M3	0.484	0.638	AREA (NOD)	SQFT	0.060	0.080	SQM	0.006	0.007
REL H	20 %		VEL	FPS	1422.2	1080.9	M/S	433.5	573.3	W (MODEL)	LB/S	2.3	6.5	KG/S	1.0	3.0

1/3 OCTAVE BAND MODEL JET NOISE DATA 15.0FT RADIUS THEORETICAL DAY SPL - (MODEL)

BAND CENTER FREQ (KHZ)	MICROPHONE ANGLES IN DEGREES 60	70	80	90	100	110	120	130	140	150	160	POWER 1E-12W
.050	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
.063	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
.080	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
.100	85.4	89.8	92.1	91.8	91.3	92.5	94.4	96.0	98.2	102.0	106.4	0.0
.125	87.9	91.3	91.3	92.0	93.6	93.7	93.7	96.4	100.4	105.3	106.6	118.6
.160	92.4	95.2	92.7	92.9	91.9	92.8	94.2	95.3	101.1	105.3	109.1	114.5
.200	90.7	91.1	91.7	93.0	94.1	95.0	97.4	98.9	105.0	109.3	111.6	120.9
.250	92.1	92.4	93.6	95.2	96.3	97.5	99.3	101.8	107.5	111.6	114.6	123.4
.315	93.5	93.5	97.4	96.6	98.1	98.9	101.4	104.9	109.6	114.2	117.6	126.5
.400	96.8	97.6	98.2	98.7	100.5	102.2	104.5	108.1	113.9	117.7	120.7	129.0
.500	98.7	98.2	98.3	100.1	101.6	102.5	105.5	109.6	116.3	120.1	119.5	132.4
.630	99.8	99.8	99.8	101.4	102.3	103.6	107.0	111.1	117.0	120.0	120.1	133.9
.800	99.6	100.3	100.7	101.8	103.7	104.3	107.0	111.4	116.9	120.1	120.0	134.3
1.00	100.2	100.3	100.8	101.8	104.1	105.8	108.4	111.9	116.7	118.4	120.1	134.4
1.25	99.8	100.4	101.6	102.4	104.7	105.6	108.7	112.3	115.6	117.1	118.1	133.6
1.60	99.1	100.7	101.5	102.3	104.7	105.7	109.1	112.2	114.8	116.4	117.7	133.1
2.00	99.9	100.8	101.7	103.1	105.3	106.4	109.9	112.3	114.4	116.0	117.3	132.7
2.50	99.9	100.9	101.9	103.3	105.7	106.8	110.4	112.6	114.1	116.3	118.4	132.5
3.15	100.3	101.3	102.0	103.2	106.0	107.1	110.7	112.4	113.9	116.7	117.5	132.8
4.00	100.2	101.3	102.0	103.2	106.0	107.3	110.9	112.1	112.7	116.8	116.9	132.6
5.00	100.6	100.5	101.4	102.7	105.7	106.8	110.3	111.3	113.1	116.0	114.8	132.8
6.30	103.7	101.4	101.4	102.6	105.5	106.8	110.2	110.7	113.3	115.5	113.6	132.9
8.00	107.2	104.3	102.1	102.5	104.9	106.3	109.4	109.9	112.5	113.6	111.3	131.7
10.0	108.0	108.7	105.9	103.4	104.7	105.9	108.9	108.9	111.7	112.4	109.9	130.9
12.5	103.4	106.6	108.1	106.1	105.1	105.4	108.1	107.8	110.2	111.1	108.5	130.8
16.0	101.7	102.8	104.9	106.9	106.8	105.5	107.4	106.7	109.1	110.1	107.7	130.1
20.0	101.2	102.1	102.1	103.4	106.5	105.1	106.5	105.3	107.6	108.7	106.3	129.2
25.0	99.0	101.1	102.4	102.7	104.8	105.7	105.9	104.5	106.4	108.0	105.7	127.9
31.5	98.0	100.0	101.6	102.7	104.5	105.1	106.5	104.4	106.2	107.5	105.2	127.2
40.0	97.4	99.8	101.5	102.5	104.5	105.3	106.4	105.0	106.3	108.2	105.7	126.9
50.0	96.9	99.3	100.8	102.1	104.4	104.8	106.5	105.2	106.3	108.2	105.9	127.1
63.0	96.0	98.4	100.2	101.6	104.2	104.4	106.2	105.4	106.3	108.9	106.6	127.1
80.0	96.5	98.6	101.1	102.1	104.6	104.8	107.1	106.1	108.3	110.4	107.7	128.9
100.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	127.9
												0.0
OSPL	115.3	115.9	116.3	116.9	118.7	119.5	122.3	123.8	127.2	129.8	130.4	OAPWL = 145.6

5.1E-5

20086F TAPE P7493 NASA VSCE (NAS3-20061) CONFIG. E 15.2049

STAND X206 RIG ID 705308 TEST DATE 03/11/77 SCALE RATIO 12.0/1 RUN NUMBER 2008 CONDITION 8603

TEMP 77.0(F) 25.0(C)
PRES 30.31IN 1.03BAR
WIND D
WIND V 0MPH 0.0M/S
REL H 70.0%

		PRIMARY	FAN
AREA	SQFT	8.640	11.520
P.R.		1.52	2.48
TEMP	(R)	1473.7	1272.7
RHO	LB/FT3	0.036	0.040
VEL	FPS	1422.2	1880.9

		PRIMARY	FAN
SCM		0.803	1.070
		1.52	2.48
	(K)	818.7	707.1
KG/M3		0.684	0.633
M/S		433.5	573.3

		PRIMARY	FAN		PRIMARY	FAN
MASS FLOW	LB/S	326.9	937.4	KG/S	148.3	425.2
THRUST,IDL	LB	14437.4	54757.3	KN	64.220	243.571
THRUST,MEA	LB		0.0	KN	0.0	
AREA (MOD)	SQFT	0.060	0.060	SQM	0.006	0.007
W (MODEL)	LB/S	2.3	6.5	KG/S	1.0	3.0

FAA DAY

1/3 OCTAVE BAND ENGINE JET NOISE DATA 150.0FT RADIUS (SCALED ENGINE)

BAND CENTER FREQ (KHZ)	MICROPHONE ANGLES IN DEGREES 60	70	80	90	100	110	120	130	140	150	160	POWER IE-12W
.050	101.4	101.4	101.4	103.0	103.9	105.2	108.6	112.7	118.6	121.6	121.7	
.063	100.6	101.9	102.3	103.4	105.3	105.9	108.6	113.0	118.5	121.7	121.6	157.5
.080	101.8	101.9	102.4	103.4	105.7	107.4	110.0	113.5	118.3	120.0	121.7	157.6
.100	101.4	102.0	103.2	104.0	106.3	107.2	110.3	113.9	117.2	118.7	119.7	157.1
.125	100.7	102.3	103.1	104.9	106.3	107.3	110.7	113.8	116.4	116.0	115.3	156.2
.160	101.4	102.3	103.2	104.6	106.8	107.9	111.4	113.8	115.9	117.5	118.8	155.8
.200	101.4	102.4	103.4	104.8	107.2	108.3	111.9	114.1	115.6	117.8	119.9	155.8
.250	101.8	102.8	103.5	104.7	107.5	108.6	112.2	113.9	115.4	116.2	115.0	155.9
.315	101.7	102.8	103.5	104.7	107.5	108.8	112.4	113.6	115.2	118.3	118.4	155.9
.400	102.1	102.6	102.9	104.2	107.2	108.3	111.8	112.8	114.6	117.5	116.3	155.8
.500	105.1	102.8	102.8	104.0	106.9	108.2	111.6	112.1	114.7	116.9	115.0	155.8
.630	106.6	105.7	103.5	103.9	106.3	107.7	110.8	111.3	113.9	115.0	112.7	155.0
1.00	109.4	110.1	107.3	104.8	106.1	107.3	110.3	110.3	113.1	113.8	111.3	154.7
1.25	104.7	107.9	109.4	107.4	106.4	106.7	109.4	109.1	111.5	112.4	109.8	153.9
1.60	102.9	104.0	106.1	108.1	108.0	106.7	108.6	107.9	110.3	111.3	108.9	153.8
2.00	102.3	103.2	103.2	104.5	107.6	106.2	107.6	106.4	108.7	109.8	107.4	153.0
2.50	100.1	102.2	103.5	103.8	105.9	106.8	107.0	105.6	107.5	109.1	106.8	152.1
3.15	98.9	100.9	102.5	103.6	105.4	106.0	107.4	105.3	107.1	108.4	106.1	151.6
4.00	98.1	100.5	102.2	103.2	105.2	106.0	107.1	105.7	107.0	108.9	106.4	149.8
5.00	97.4	99.8	101.3	102.6	104.9	105.3	107.0	105.7	106.8	108.7	106.4	149.4
6.30	96.3	98.7	100.5	101.9	104.5	104.7	106.5	105.7	106.6	109.2	106.3	149.3
8.00	96.5	98.6	101.1	102.1	104.6	104.8	107.1	106.1	108.3	110.4	107.7	149.0
10.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	148.8
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	148.9
												0.0
												0.0

5.1E-6

OSPL 116.4 117.0 117.3 117.8 119.7 120.5 123.3 124.9 127.9 130.1 130.4
PNL 125.3 126.6 127.7 128.5 130.5 131.2 133.2 133.0 135.0 136.9 135.5

OAPWL = 167.8

200. SIDELINE
PNL 121.3 123.3 124.8 125.8 127.7 127.9 129.1 127.7 128.0 127.5 122.8

370. SIDELINE
PNL 115.5 117.2 118.8 119.8 121.7 121.8 123.0 121.6 121.8 121.2 116.8

800. SIDELINE
PNL 107.6 109.4 110.4 111.4 113.2 113.3 114.5 113.2 113.5 112.9 108.1

2128. SIDELINE
PNL 95.8 97.7 98.3 99.0 100.8 100.6 102.4 101.8 101.9 100.9 96.2

STAND X206 RIG ID 705308 TEST DATE 03/11/77 SCALE RATIO 12.0/1 RUN NUMBER 20086 CONDITION 8604

					PRIMARY	FAN		PRIMARY	FAN			PRIMARY	FAN		PRIMARY	FAN
TEMP	87°F	30.6°C	AREA	SQFT	0.0	0.0	SQM	0.0	0.0	MASS FLOW	LB/S	0.0	0.0	KG/S	0.0	0.0
PIES	30.311N	1.03BAR	P.R.		1.56	3.19		1.56	3.19	THRUST,IDL	LB	107.7	543.5	KN	0.479	2.417
WIND D			TEMP	(R)	1469.7	1267.7	(K)	816.5	704.3	THRUST,MEA	LB		0.0	KN	0.0	
WIND V	0MPH	0.0M/S	RHO	LB/FT3	0.030	0.043	KG/M3	0.486	0.684	AREA (MOD)	SQFT	0.060	0.080	SQM	0.006	0.007
REL H	20 %		VEL	FPS	1451.6	2085.8	M/S	442.4	635.7	W (MODEL)	LB/S	2.4	8.4	KG/S	1.1	3.8

1/3 OCTAVE BAND MODEL JET NOISE DATA 15.0FT RADIUS THEORETICAL DAY SPL - (MODEL)

BAND CENTER FREQ (KHZ)	MICROPHONE ANGLES IN DEGREES 60	70	80	90	100	110	120	130	140	150	160	POWER 1E-12W
.050	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
.063	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
.080	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
.100	89.9	93.5	96.1	94.7	94.6	96.0	97.5	98.8	101.1	105.1	109.8	121.8
.125	91.9	95.0	94.8	95.7	97.1	97.0	96.6	99.4	103.6	106.8	110.4	123.6
.160	96.4	98.6	96.1	96.5	95.7	96.1	97.2	98.2	104.0	108.2	112.6	124.1
.200	95.0	95.0	95.4	96.3	97.3	96.5	100.8	102.1	106.0	112.7	115.3	127.3
.250	96.2	95.9	97.3	98.1	99.1	100.4	102.3	104.6	110.4	115.3	118.3	129.9
.315	98.1	98.0	100.3	99.2	101.0	102.0	104.2	107.8	112.5	117.6	121.2	132.3
.400	100.1	100.0	100.8	101.0	103.2	104.9	107.3	110.6	116.8	121.0	124.4	135.7
.500	101.5	101.2	101.7	102.6	103.6	105.2	108.1	111.7	119.4	123.7	123.4	137.3
.630	102.3	102.4	102.8	104.4	105.1	106.6	109.6	114.1	120.3	124.0	124.3	138.0
.800	102.6	103.3	103.8	104.9	106.6	106.9	109.5	114.5	120.5	124.5	124.2	138.3
1.00	103.1	104.2	104.3	105.0	107.4	109.2	111.6	115.5	120.3	123.7	125.2	138.4
1.25	104.2	104.2	105.4	106.1	108.1	108.9	112.0	115.7	119.6	122.9	124.1	137.8
1.60	103.4	104.8	105.5	106.0	108.1	109.2	112.2	115.8	119.1	122.7	124.0	137.6
2.00	104.3	104.8	105.4	106.6	108.7	109.7	113.1	116.2	119.1	123.2	123.3	137.8
2.50	104.0	104.6	105.3	106.5	108.8	109.9	113.8	116.5	119.6	123.8	123.5	138.2
3.15	105.5	105.4	105.5	106.4	109.2	110.3	114.1	116.5	120.6	124.1	121.8	138.4
4.00	110.7	107.1	105.8	106.6	109.1	110.4	114.3	116.5	121.1	123.2	120.0	138.2
5.00	114.9	112.8	106.9	106.6	108.8	110.0	113.8	115.9	120.4	120.4	117.2	137.4
6.30	113.8	114.3	114.2	110.3	109.5	110.2	114.0	115.7	120.4	119.1	115.6	137.5
8.00	108.6	110.5	113.0	113.6	111.2	110.3	113.4	115.0	119.1	117.9	113.7	136.7
10.0	110.3	110.0	110.1	112.3	113.3	110.9	113.2	114.2	118.0	116.8	112.5	136.0
12.5	109.6	111.5	110.8	109.9	113.2	111.6	112.7	113.2	116.6	115.5	111.0	135.3
16.0	108.8	110.4	111.5	110.9	111.8	112.7	112.8	112.7	115.9	114.7	110.3	135.0
20.0	107.2	109.3	110.1	110.2	111.3	111.5	112.5	111.3	114.6	113.4	109.0	134.6
25.0	106.3	108.2	109.4	110.0	111.0	111.2	112.1	110.9	113.9	112.9	108.7	133.5
31.5	105.5	108.0	109.4	109.9	111.3	110.7	111.9	110.8	114.0	112.5	108.2	133.4
40.0	105.5	108.3	109.8	110.2	111.6	111.7	111.8	111.4	114.5	113.6	108.9	133.6
50.0	105.6	108.4	109.6	110.6	112.1	112.0	112.9	112.1	114.7	113.8	109.3	134.3
63.0	105.4	107.9	109.8	110.8	112.8	112.4	113.2	112.5	115.3	114.6	109.6	134.7
80.0	106.3	108.9	110.9	111.6	113.9	113.4	114.7	113.9	117.8	116.4	111.6	136.2
100.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
OSPL	121.6	122.4	122.9	123.0	124.3	124.4	126.5	128.2	132.5	134.9	134.8	

OAPWL = 150.7

5.1E-7

STAND X206 RIG ID 705308 TEST DATE 03/11/77 SCALE RATIO 12.0/1 RUN NUMBER 2008 CONDITION 8695

				PRIMARY	FAN		PRIMARY	FAN				PRIMARY	FAN		PRIMARY	FAN
TEMP	77.0(F)	25.0(C)	AREA SQFT	8.640	11.520	SQM	0.803	1.070	MASS FLOW	LB/S	344.2	1208.2	KG/S	156.1	548.0
PRES	30.31IN	1.038AR	P.R.	1.56	3.19		1.56	3.19	THRUST,IDL	LB	15514.7	78256.8	KN	69.012	348.111
WIND D			TEMP (R)	1469.7	1267.7	(K)	816.5	704.3	THRUST,MEA	LB		0.0	KN	0.0	
WIND V	0MPH	0.0M/S	RHO LB/FT3	0.030	0.043	KG/M3	0.498	0.684	AREA (MOD)	SQFT	0.060	0.060	SQM	0.006	0.007
REL H	70.0%		VEL FPS	1451.6	2085.8	M/S	442.4	635.7	W (MODEL)	LB/S	2.4	8.4	KG/S	1.1	3.8

FAR DAY

1/3 OCTAVE BAND ENGINE JET NOISE DATA 150.0FT RADIUS (SCALED ENGINE)

BAND CENTER FREQ (KHZ)	MICROPHONE ANGLES IN DEGREES 60	70	80	90	100	110	120	130	140	150	160	POWER IE-12W
.050	103.9	104.0	104.4	106.0	106.7	108.2	111.2	115.7	121.9	125.6	125.9	
.063	103.6	104.8	105.4	106.5	108.2	108.5	111.1	116.1	122.1	126.1	125.8	161.2
.080	104.7	105.8	105.9	106.6	109.0	110.8	113.2	117.1	123.9	125.3	126.8	161.5
.100	105.8	105.8	107.0	107.7	109.7	110.5	113.6	117.3	121.2	124.5	125.7	161.5
.125	105.0	106.4	107.1	107.6	109.7	110.8	113.8	117.4	120.7	124.3	125.6	160.9
.160	105.8	106.3	106.9	108.1	110.2	111.2	114.6	117.7	120.6	124.7	124.8	160.8
.200	105.5	106.1	106.8	108.0	110.3	111.4	115.3	118.0	121.1	125.3	125.0	160.9
.250	107.0	106.9	107.6	107.9	110.7	111.8	115.6	118.6	122.1	125.6	125.3	161.3
.315	112.2	108.6	107.3	108.1	110.6	111.9	115.8	118.6	122.6	124.7	121.5	161.5
.400	116.4	114.3	110.4	108.1	110.3	111.5	115.3	117.4	121.9	121.9	118.7	161.3
.500	113.2	115.7	115.6	111.7	110.9	111.6	115.4	117.1	121.8	120.5	117.0	160.4
.630	110.6	111.9	114.4	115.0	112.6	111.7	114.8	116.4	120.5	119.3	115.1	160.5
.800	111.7	111.5	111.5	113.7	114.7	112.3	114.6	115.6	119.4	118.2	113.9	159.7
1.00	110.9	112.8	112.1	111.2	114.5	113.1	114.0	114.5	117.9	116.8	112.3	158.9
1.25	110.0	111.6	112.7	112.1	113.0	113.9	114.0	113.9	117.1	115.9	111.5	158.2
1.60	108.3	110.4	111.2	111.3	112.4	112.6	113.6	112.4	115.7	114.5	110.1	157.8
2.00	107.4	109.3	110.5	111.1	112.1	112.3	113.2	112.0	115.0	114.0	109.8	156.7
2.50	106.4	108.9	110.3	110.8	112.2	111.6	112.8	111.7	114.9	113.4	109.1	156.2
3.15	106.2	109.0	110.5	110.9	112.3	112.4	112.5	112.1	115.2	114.3	109.6	155.8
4.00	106.1	108.9	110.1	111.1	112.6	112.5	113.4	112.6	115.2	114.3	109.8	156.1
5.00	105.7	108.2	110.1	111.1	113.1	112.7	113.5	112.8	115.6	114.9	109.9	156.3
6.30	106.3	108.9	110.9	111.6	113.9	113.4	114.7	113.9	117.8	116.4	111.6	156.6
8.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	157.7
10.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
												0.0
OASPL	122.8	123.5	123.9	123.9	125.2	125.3	127.5	129.3	133.4	135.6	135.1	OAPWL = 173.1
PNL	132.3	134.1	135.1	135.5	137.0	137.0	138.5	138.8	142.3	142.3	139.5	

200. SIDELINE

PNL 128.3 130.8 132.3 132.8 134.1 133.6 134.4 133.5 135.2 132.9 126.8

370. SIDELINE

PNL 122.4 124.7 126.2 126.7 127.9 127.5 128.1 127.2 128.9 126.8 120.7

800. SIDELINE

PNL 114.6 116.2 117.7 118.1 119.4 118.9 119.4 118.5 120.3 118.6 112.3

2128. SIDELINE

PNL 103.1 104.4 105.3 105.3 106.1 105.6 106.6 106.6 108.4 106.9 100.7

STAND X206 RIG ID 705308 TEST DATE 03/11/77 SCALE RATIO 12.0/1 RUN NUMBER 20086 CONDITION 8605

					PRIMARY	FAN		PRIMARY	FAN			PRIMARY	FAN		PRIMARY	FAN
TEMP	93°F	33.9°C	AREA	SQFT	0.0	0.0	SQM	0.0	0.0	MASS FLOW	LB/S	0.0	0.0	KG/S	0.0	0.0
PRES	30.31IN	1.03BAR	P.R.		1.51	1.77		1.51	1.77	THRUST,IDL	LB	98.2	214.0	KN	0.437	0.952
WIND	D		TEMP	(R)	1436.7	1948.7	(K)	798.3	1082.6	THRUST,MEA	LB		0.0	KN	0.0	
WIND	V 0MPH	0.0M/S	RHO	LB/FT3	0.031	0.024	KG/M3	0.495	0.378	AREA (MOD)	SQFT	0.060	0.080	SQM	0.006	0.007
REL	H 20 %		VEL	FPS	1387.4	1892.6	M/S	422.9	576.9	W (MODEL)	LB/S	2.3	3.6	KG/S	1.0	1.7

1/3 OCTAVE BAND MODEL JET NOISE DATA 15.0FT RADIUS THEORETICAL DAY SPL - (MODEL)

BAND CENTER FREQ (KHZ)	MICROPHONE ANGLES IN DEGREES 60	70	80	90	100	110	120	130	140	150	160	POWER 1E-12W
.050	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
.063	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
.080	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
.100	83.4	86.9	89.4	89.4	88.8	89.9	92.7	94.3	96.5	99.7	103.4	116.3
.125	84.6	88.1	88.7	90.1	92.1	92.0	92.2	95.9	99.7	101.6	104.2	117.9
.160	89.4	92.2	90.0	90.2	90.0	91.0	92.6	93.6	99.7	103.2	106.6	118.6
.200	88.2	87.9	88.2	89.4	90.9	92.1	94.9	96.8	103.6	107.3	109.1	121.8
.250	89.9	90.3	90.8	92.1	93.7	94.9	97.0	100.0	105.7	109.7	111.5	124.2
.315	91.7	91.7	96.3	94.0	95.4	96.4	99.1	103.2	107.9	111.9	114.4	126.6
.400	94.5	94.4	96.2	95.5	97.6	99.6	102.6	106.4	111.6	114.9	117.4	129.7
.500	96.5	95.7	96.0	97.9	98.7	100.3	103.5	107.1	113.9	116.9	116.0	131.0
.630	96.6	96.4	97.3	98.6	99.9	101.4	104.9	109.0	114.2	116.8	116.4	131.4
.800	96.5	97.8	98.3	99.3	101.2	102.1	105.1	109.4	113.9	116.3	115.8	131.1
1.00	96.8	97.5	98.4	99.4	102.1	103.4	106.3	109.9	113.3	114.1	115.2	130.4
1.25	96.3	97.9	98.8	99.7	102.4	103.5	106.8	109.9	112.2	112.6	113.0	129.6
1.60	96.2	97.8	98.8	100.0	102.5	103.8	107.0	109.6	111.1	111.4	111.8	129.0
2.00	96.4	98.1	99.0	100.6	103.2	104.5	107.7	109.7	110.6	110.8	111.0	128.9
2.50	96.5	98.2	99.2	100.9	103.7	104.9	108.4	109.7	110.1	110.6	111.8	129.0
3.15	96.7	98.2	99.2	100.7	104.0	105.2	108.4	109.0	109.5	110.6	110.9	128.8
4.00	96.6	98.2	99.3	100.8	104.1	105.5	108.5	108.8	108.9	110.7	110.8	128.7
5.00	96.3	97.5	98.7	100.2	103.8	105.1	107.9	108.0	108.0	110.1	109.5	128.1
6.30	95.7	96.9	98.4	100.1	103.5	105.0	107.6	107.3	107.9	109.5	108.1	127.6
8.00	94.2	96.3	97.7	99.5	102.9	104.5	106.8	106.3	106.9	108.5	106.7	126.6
10.0	92.9	95.4	96.9	98.6	102.2	103.6	105.9	105.0	106.2	107.0	105.0	125.7
12.5	92.3	94.1	95.9	97.9	101.3	102.7	104.7	103.7	104.8	105.3	103.5	124.5
16.0	91.2	93.5	95.4	97.0	100.6	102.0	103.8	102.5	103.8	104.2	102.4	123.6
20.0	89.6	92.2	93.7	95.5	99.1	100.4	102.1	100.6	101.8	102.4	100.7	121.8
25.0	88.3	90.6	92.7	95.0	98.0	99.6	100.7	99.4	100.5	101.3	99.9	120.6
31.5	87.3	90.0	92.0	93.9	97.3	98.3	99.9	98.7	99.6	100.2	98.7	119.8
40.0	87.3	90.0	92.0	94.0	97.0	98.4	99.2	98.6	99.3	100.6	98.9	119.6
50.0	87.6	90.3	92.0	94.4	97.3	98.5	100.0	99.0	99.5	100.6	99.4	120.0
63.0	87.8	90.5	92.4	94.4	97.9	98.6	100.1	99.2	99.4	101.1	99.4	120.2
80.0	88.9	91.4	93.7	95.3	98.7	99.2	101.2	100.1	101.3	102.5	101.2	121.4
100.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
OSPL	108.6	109.9	111.1	112.5	115.4	116.7	119.4	120.9	123.6	125.5	125.9	

OAPWL = 141.8

5.1E-9

STAND X206 RIG ID 705308 TEST DATE 03/11/77 SCALE RATIO 12.0/1 RUN NUMBER 2008 CONDITION 8605

					PRIMARY	FAN		PRIMARY	FAN			PRIMARY	FAN		PRIMARY	FAN
TEMP	77.0(F)	25.0(C)	AREA	SQFT	8.680	11.520	SQM	0.803	1.070	MASS FLOW	LB/S	328.3	524.2	KG/S	148.9	237.8
PRES	30.31IN	1.03BAR	P.R.		1.51	1.77		1.51	1.77	THRUST,IDL	LB	14146.2	30606.9	KN	62.925	137.044
WIND D			TEMP	(R)	1458.7	1948.7	(K)	799.3	1082.6	THRUST,MEA	LB		0.0	KN	0.0	
WIND V	0MPH	0.0M/S	RHO	LB/FT3	0.031	0.024	KG/M3	0.495	0.378	AREA (MOD)	SQFT	0.060	0.080	SQM	0.006	0.007
REL H	70.0%		VEL	FPS	1387.4	1892.6	M/S	422.9	576.9	W (MODEL)	LB/S	2.3	3.6	KG/S	1.0	1.7

FAN DAY

1/3 OCTAVE BAND ENGINE JET NOISE DATA 150.0FT RADIUS (SCALED ENGINE)

BAND CENTER FREQ (KHZ)	MICROPHONE ANGLES IN DEGREES 60	70	80	90	100	110	120	130	140	150	160	POWER 1E-12W
.050	98.2	98.0	98.9	100.2	101.5	103.0	106.5	110.6	115.8	118.4	118.0	
.063	98.1	99.4	99.9	100.9	102.8	103.7	106.7	111.0	115.5	117.9	117.4	154.5
.080	98.4	99.1	100.0	101.0	103.7	105.0	107.9	111.5	114.9	115.7	116.8	154.3
.100	97.9	99.5	100.4	101.3	104.6	105.1	108.4	111.5	113.8	114.2	114.6	153.6
.125	97.9	99.4	100.4	101.6	104.1	105.4	108.6	111.2	112.7	113.0	113.4	152.8
.160	97.9	99.6	100.5	102.1	104.7	106.0	109.2	111.2	112.1	112.3	112.5	152.1
.200	98.0	99.7	100.7	102.4	105.2	106.4	109.9	111.2	111.6	112.1	113.3	152.0
.250	98.2	99.7	100.7	102.2	105.5	106.7	109.9	110.5	111.0	112.1	112.4	152.1
.315	98.1	99.7	100.8	102.3	105.6	107.0	110.0	110.3	110.4	112.2	112.3	151.9
.400	97.8	99.6	100.2	101.7	105.3	106.6	109.4	109.5	109.5	111.6	111.6	151.6
.500	97.1	98.3	99.8	101.5	104.9	106.4	109.2	108.7	109.3	110.9	109.5	151.1
.630	95.6	97.7	99.1	100.9	104.3	105.9	108.2	107.7	108.3	109.9	108.1	150.6
.800	94.3	96.8	98.3	100.0	103.6	105.6	107.3	106.4	107.6	108.4	106.4	149.8
1.00	92.6	95.4	97.2	99.2	102.6	104.6	106.6	105.0	106.1	106.6	104.8	148.7
1.25	92.4	94.7	96.6	98.2	101.8	103.2	105.0	103.7	105.0	105.4	103.6	147.4
1.60	90.7	93.3	94.8	96.6	100.2	101.5	103.2	101.7	102.9	103.5	101.8	146.4
2.00	89.4	91.7	93.8	96.1	99.1	100.7	101.8	100.5	101.6	102.4	101.0	144.6
2.50	88.2	90.9	92.9	94.8	98.2	99.2	100.8	99.6	100.5	101.1	99.6	143.4
3.15	88.0	90.7	92.7	94.7	97.7	99.1	99.9	99.3	100.0	101.3	99.6	142.3
4.00	88.1	91.0	92.5	94.9	97.8	99.0	100.5	99.5	100.0	101.1	99.9	141.9
5.00	88.1	90.8	92.7	94.7	98.2	98.9	100.4	99.5	99.7	101.4	99.7	142.0
6.30	88.9	91.4	93.7	95.3	98.7	99.2	101.2	100.1	101.3	102.5	101.2	142.1
8.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	142.9
10.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
												0.0

5.1E-10

OSPL	109.3	110.8	111.9	113.4	116.4	117.7	120.5	121.8	123.9	125.3	125.3	OAPWL = 163.8
PNL	116.5	118.7	120.3	122.1	125.2	126.4	128.5	128.3	129.3	130.4	129.7	

200. SIDELINE

PNL	112.4	115.4	117.4	119.4	122.3	123.2	124.4	123.1	122.4	121.3	117.0

370. SIDELINE

PNL	106.5	109.4	111.5	113.4	116.4	117.2	118.3	117.3	116.4	115.3	110.8

800. SIDELINE

PNL	98.7	101.3	103.2	105.1	108.2	108.9	110.5	109.5	108.5	107.1	102.2

2128. SIDELINE

PNL	87.3	90.0	92.0	93.8	96.9	97.7	99.3	98.2	97.2	95.3	90.2

STAND X206 RIG ID 705308 TEST DATE 03/11/77 SCALE RATIO 12.0/1 RUN NUMBER 20086 CONDITION 8606

					PRIMARY	FAN		PRIMARY	FAN			PRIMARY	FAN		PRIMARY	FAN
TEMP	94°F	34.4°C	AREA	SQFT	0.0	0.0	SQM	0.0	0.0	MASS FLOW	LB/S	0.0	0.0	KG/S	0.0	0.0
PRES	30.311N	1.03BAR	P.R.		1.51	2.47		1.51	2.47	THRUST,IDL	LB	102.0	274.2	KN	0.454	1.665
WIND D			TEMP	(R)	1426.7	1962.7	(K)	792.6	1090.4	THRUST,MEA	LB		0.0	KN	0.0	
WIND V	CMPH	0.0M/S	RHO	LB/FT3	0.031	0.025	KG/M3	0.499	0.406	AREA (MOD)	SQFT	0.060	0.080	SQM	0.006	0.007
REL H	19 %		VEL	FPS	1385.4	2239.8	M/S	422.3	713.2	W (MODEL)	LB/S	2.4	5.1	KG/S	1.1	2.3

1/3 OCTAVE BAND MODEL JET NOISE DATA 15.0FT RADIUS THEORETICAL DAY SPL - (MODEL)

BAND CENTER FREQ (KHZ)	MICROPHONE ANGLES IN DEGREES 60	70	80	90	100	110	120	130	140	150	160	POWER 1E-12W
.050	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
.063	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
.080	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
.100	88.0	91.4	94.8	93.5	92.8	93.9	96.1	98.0	100.0	103.6	107.7	0.0
.125	88.6	92.4	93.4	94.3	95.7	95.4	95.7	99.2	102.9	105.4	108.7	120.3
.160	94.6	97.1	94.6	94.7	94.3	94.9	96.1	97.5	103.3	107.3	111.0	121.7
.200	92.7	92.2	92.6	93.8	94.9	96.3	99.0	100.8	107.1	111.4	113.6	123.0
.250	94.2	94.4	95.2	96.1	97.5	98.6	100.9	103.7	109.6	114.1	116.6	125.9
.315	95.6	94.9	100.1	97.4	99.3	100.3	102.9	107.1	111.6	116.3	119.0	128.6
.400	98.9	98.6	99.9	99.1	101.6	103.1	106.2	110.1	115.8	119.6	122.1	130.9
.500	100.5	99.4	99.9	101.5	102.4	103.6	107.1	111.3	118.3	121.7	120.9	134.2
.630	100.7	100.9	101.3	102.8	103.6	104.8	108.5	113.3	118.7	121.6	121.3	135.6
.800	100.3	101.8	102.3	103.3	105.1	105.7	109.6	113.6	118.4	121.6	121.2	135.9
1.00	101.7	101.8	102.5	103.6	105.9	107.4	110.6	114.6	118.2	120.4	121.6	136.0
1.25	101.4	102.7	103.4	104.2	106.6	107.6	111.2	114.9	117.4	119.6	120.2	135.8
1.60	101.6	102.8	103.6	104.5	106.8	108.0	111.8	115.0	116.9	119.7	120.3	135.3
2.00	102.4	103.3	104.1	105.5	107.6	108.9	112.8	115.3	117.2	120.3	120.1	135.3
2.50	102.4	103.3	104.1	105.8	108.1	109.5	113.8	115.6	117.8	121.1	120.9	135.7
3.15	102.4	103.3	104.2	105.6	108.7	110.1	114.2	115.5	118.8	121.4	119.0	136.4
4.00	101.6	103.1	104.2	105.8	108.8	110.7	114.5	115.9	119.8	120.6	116.8	136.6
5.00	101.4	102.5	103.7	105.5	108.7	110.5	114.2	115.6	120.0	118.4	114.4	136.6
6.30	101.4	102.2	103.7	105.6	108.9	110.8	114.1	115.5	119.8	116.7	112.9	136.6
8.00	101.8	102.4	103.3	105.5	108.4	110.5	113.6	114.8	118.3	115.4	111.0	135.6
10.0	102.4	103.2	103.6	105.0	108.2	110.1	113.6	114.1	116.8	114.3	109.9	134.6
12.5	100.4	103.2	104.3	105.0	107.7	109.6	112.2	113.4	115.6	113.1	108.4	133.7
16.0	98.2	101.0	103.8	104.9	107.6	109.2	111.3	112.5	114.7	112.1	107.7	132.9
20.0	97.6	99.2	101.5	103.5	106.8	107.9	110.1	110.8	113.4	110.6	106.2	132.1
25.0	95.9	98.4	100.7	102.9	105.9	107.8	109.0	110.1	112.6	110.1	105.7	130.7
31.5	95.0	97.8	100.4	102.3	105.5	106.9	109.1	109.7	112.2	109.4	105.0	130.1
40.0	95.0	98.0	100.6	102.8	105.6	107.6	108.9	110.4	112.7	110.4	105.8	129.6
50.0	95.3	98.2	100.4	102.8	106.0	108.0	110.0	111.3	113.4	111.2	106.5	130.0
63.0	95.5	98.2	100.7	102.9	106.6	108.4	110.7	112.1	114.3	112.2	107.3	130.8
80.0	96.6	99.2	102.0	104.1	107.7	109.3	112.4	114.1	117.2	114.4	109.4	131.5
100.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	133.6
												0.0

OSPL 114.3 115.5 116.7 118.2 120.9 122.5 125.6 127.6 131.1 132.4 131.9

OAPWL = 148.5

5.1E-11

STAND X206 RIG ID 705308 TEST DATE 03/11/77 SCALE RATIO 12.0/1 RUN NUMBER 2008 CONDITION 8606

			PRIMARY	FAN			PRIMARY	FAN			PRIMARY	FAN			PRIMARY	FAN
TEMP	77.0(F)	25.0(C)	AREA SQFT	8.640	11.520	SQM	0.803	1.070	MASS FLOW	LB/S	341.3	741.6	KG/S	154.8	336.4
PRES	30.31IN	1.03BAR	P.R.	1.51	2.47		1.51	2.47	THRUST,IDL	LB	146B3.1	53808.3	KN	65.314	239.706
WIND D			TEMP (R)	1426.7	1962.7	(K)	792.6	1090.4	THRUST,MEA	LB		0.0	KN	0.0	
WIND V	0MPH	0.0M/S	RHO LB/FT3	0.031	0.025	KG/M3	0.499	0.406	AREA (MOD)	SQFT	0.060	0.080	SQM	0.006	0.007
REL H	70.6%		VEL FPS	1385.4	2339.8	M/S	422.3	713.2	W (MODEL)	LB/S	2.4	5.1	KG/S	1.1	2.3

FAA DAY
SAND

1/3 OCTAVE BAND ENGINE JET NOISE DATA 150.0FT RADIUS (SCALED ENGINE)

CENTER FREQ (KHZ)	MICROPHONE ANGLES IN DEGREES 60	70	80	90	100	110	120	130	140	150	160	POWER 1E-12W
.050	102.3	102.5	102.9	104.4	105.2	106.4	110.1	114.9	120.3	123.2	122.9	
.063	101.9	103.4	103.9	104.9	106.7	107.3	110.6	115.2	120.0	123.2	122.8	159.1
.080	103.3	103.4	104.1	105.2	107.5	109.0	112.2	116.2	119.8	122.0	123.2	159.1
.100	103.0	104.3	105.0	105.9	108.2	109.2	112.8	116.5	119.0	121.2	121.8	158.9
.125	103.2	104.4	105.2	106.1	108.4	109.6	113.4	116.6	118.5	121.3	121.9	158.4
.160	103.9	104.8	105.6	107.0	109.1	110.4	114.3	116.8	118.7	121.8	121.6	158.5
.200	103.9	104.8	105.6	107.3	109.6	111.0	115.3	117.1	119.3	122.6	122.4	158.6
.250	103.9	104.8	105.7	107.1	110.2	111.6	115.7	117.0	120.3	122.9	120.5	159.3
.315	103.1	104.6	105.7	107.3	110.3	112.2	116.0	117.4	121.3	122.1	118.3	159.7
.400	102.9	104.0	105.2	107.6	110.2	112.0	115.7	117.1	121.5	119.9	115.9	159.7
.500	102.8	103.6	105.1	107.0	110.3	112.2	115.5	116.9	121.2	118.1	114.5	159.1
.630	103.2	103.8	104.7	106.9	109.8	111.9	115.0	116.2	119.7	116.8	112.4	158.6
.800	103.8	104.6	105.0	106.4	109.6	111.5	114.4	115.5	118.2	115.7	111.3	157.6
1.00	101.7	104.5	105.6	106.3	109.0	110.9	113.5	114.7	116.9	114.4	109.7	156.7
1.25	99.4	102.2	105.0	106.1	108.8	110.4	112.5	113.7	115.9	113.3	108.9	155.6
1.60	98.1	100.3	102.6	104.6	107.9	109.6	111.2	111.9	114.5	111.7	107.3	154.9
2.00	97.0	99.5	101.8	104.0	107.6	108.9	110.1	111.2	113.7	111.2	106.8	153.4
2.50	95.9	98.7	101.3	103.2	106.4	107.8	110.0	110.6	113.1	110.3	105.9	152.7
3.15	95.7	98.7	101.3	103.5	106.3	108.3	109.6	111.1	113.4	111.1	106.5	152.0
4.00	95.8	98.7	100.9	103.3	106.5	108.5	110.5	111.8	113.9	111.7	107.0	152.3
5.00	95.8	98.5	101.6	103.2	106.9	108.7	111.0	112.4	114.6	112.5	107.6	152.6
6.30	96.6	99.2	102.0	104.1	107.7	109.3	112.4	114.1	117.2	114.4	109.4	153.4
8.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	155.1
10.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
												0.0

OAPWL = 170.8

OSPL	115.1	116.4	117.6	119.1	121.9	123.6	126.8	128.7	132.0	132.9	131.9
PNL	123.4	125.6	127.5	129.4	132.3	134.1	136.6	138.2	141.2	139.8	136.6

200. SIDELINE

PNL	119.4	122.3	124.7	126.7	129.5	130.8	132.5	132.9	134.0	130.2	124.0

370. SIDELINE

PNL	113.3	116.3	118.6	120.7	123.4	124.7	126.3	126.5	127.4	124.2	117.8

800. SIDELINE

PNL	105.1	107.9	110.3	112.3	115.0	116.2	117.8	117.8	119.1	115.9	109.4

2128. SIDELINE

PNL	93.5	96.0	98.0	99.9	102.7	103.8	106.0	106.1	107.3	104.2	97.8

5.1E-12

STAND X206 RIG ID 070530 TEST DATE 03/11/77 SCALE RATIO 12.0/1 RUN NUMBER 20086 CONDITION 8607

					PRIMARY	FAN		PRIMARY	FAN				PRIMARY	FAN		PRIMARY	FAN
TEMP	94°F	34.4°C	AREA	SQFT	0.0	0.0	SQM	0.0	0.0	MASS FLOW	LB/S		0.0	0.0	KG/S	0.0	0.0
PRES	30.241N	1.02BAR	P.R.		1.52	4.07		1.52	4.07	THRUST,IDL	LB		104.8	752.6	KN	0.466	3.348
WIND D			TEMP	(R)	1459.7	1944.7	(K)	799.8	1080.4	THRUST,MEA	LB			0.0	KN	0.0	
WIND V	0MPH	0.0M/S	RHO	LB/FT3	0.031	0.029	KG/M3	0.495	0.462	AREA (MOD)	SQFT		0.060	0.080	SQM	0.006	0.007
REL H	18 90		VEL	FPS	1400.6	2818.0	M/S	426.9	858.9	W (MODEL)	LB/S		2.4	8.6	KG/S	1.1	3.9

1/3 OCTAVE BAND MODEL JET NOISE DATA 15.0FT RADIUS THEORETICAL DAY SPL - (MODEL)

BAND CENTER FREQ (KHZ)	MICROPHONE ANGLES IN DEGREES 60	70	80	90	100	110	120	130	140	150	160	POWER 1E-12W
.050	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
.063	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
.080	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
.100	94.6	97.7	102.6	98.7	98.1	99.8	101.5	103.5	105.7	110.3	115.1	0.0
.125	96.5	99.6	101.1	100.5	101.4	100.7	100.8	104.5	107.8	111.4	115.9	126.8
.160	101.8	103.8	101.7	101.8	100.9	101.1	101.7	102.8	108.8	113.6	118.1	127.8
.200	100.5	98.8	99.5	100.2	100.9	102.1	104.1	106.7	113.1	117.8	120.4	129.4
.250	101.9	101.1	102.1	102.3	103.7	104.8	106.6	109.5	115.3	120.5	123.4	132.2
.315	103.2	106.2	106.2	104.4	105.4	106.4	107.9	112.6	117.1	122.7	126.1	134.9
.400	105.3	104.3	105.5	104.3	106.6	106.9	111.6	115.8	121.4	125.9	129.0	137.2
.500	105.9	104.1	105.3	106.3	107.0	109.0	112.0	117.0	124.7	128.6	127.6	140.4
.630	105.3	105.5	106.9	107.9	108.5	110.2	113.6	119.6	126.1	129.4	128.3	142.1
.800	106.1	106.8	108.3	108.8	109.7	111.1	114.3	120.5	126.8	130.4	128.5	143.2
1.00	106.6	106.9	108.0	108.6	110.4	112.8	116.0	121.5	127.3	130.3	128.6	144.0
1.25	106.7	107.4	108.6	109.2	110.9	113.3	116.8	121.6	126.9	130.4	127.2	144.3
1.60	105.8	107.2	108.4	109.4	110.9	113.3	117.4	121.9	127.2	130.4	126.0	144.1
2.00	106.5	106.7	108.4	109.4	111.0	113.8	118.4	122.0	127.9	129.1	123.2	144.2
2.50	106.8	107.4	109.0	109.9	111.5	114.7	119.6	122.9	128.4	127.2	121.8	143.7
3.15	112.9	110.6	110.0	110.5	112.3	115.4	120.6	123.3	128.7	125.4	119.7	143.5
4.00	112.9	113.9	113.2	111.4	112.8	116.0	120.8	124.5	127.2	123.4	117.9	143.6
5.00	111.5	112.7	114.4	112.9	113.0	116.2	120.8	124.1	125.1	121.8	116.0	143.0
6.30	111.3	111.6	113.6	114.8	114.1	116.5	120.6	123.7	124.2	120.3	1.4.5	142.0
8.00	111.5	111.9	112.8	114.2	114.8	116.7	120.2	122.6	123.0	119.1	112.8	141.5
10.0	110.8	112.5	113.1	113.5	115.0	116.5	119.6	121.5	121.7	118.0	111.6	140.8
12.5	110.4	111.9	113.5	113.4	114.2	116.4	118.4	120.4	120.6	116.8	110.3	140.0
16.0	109.6	111.4	113.4	113.5	114.2	116.3	117.9	119.6	119.9	115.7	109.6	139.2
20.0	108.4	110.4	112.3	112.9	113.3	114.9	117.1	118.3	118.9	114.6	108.4	138.6
25.0	107.5	109.5	111.7	112.8	113.2	114.9	116.1	117.8	118.1	114.3	108.2	137.6
31.5	107.1	109.5	111.8	112.5	113.2	114.5	116.3	118.0	118.0	113.9	107.7	137.1
40.0	107.7	110.2	112.7	113.6	113.7	115.7	116.7	118.8	118.9	114.9	108.8	137.6
50.0	108.1	110.9	113.0	114.0	114.6	116.4	118.2	120.0	119.5	115.8	109.8	137.8
63.0	108.7	111.2	113.7	114.7	115.8	117.4	119.1	120.9	120.4	116.6	110.4	138.8
80.0	110.1	112.7	115.8	116.5	117.8	119.1	121.3	122.9	123.1	118.9	112.5	139.7
100.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	141.8
												0.0
												OAPWL = 155.7
USPL	123.2	124.2	125.8	126.2	127.1	129.1	132.2	135.3	138.7	139.8	137.8	

5.1E-13

STAND X206 RIG ID 070530. TEST DATE 03/11/77 SCALE RATIO 12.0/1 RUN NUMBER 2008 CONDITION 8607

			PRIMARY	FAN		PRIMARY	FAN			PRIMARY	FAN		PRIMARY	FAN
TEMP 77.0(F)	25.0(C)	AREA SQFT	8.640	11.520	SQM	0.803	1.070	MASS FLOW	LB/S	347.0	1238.4	KG/S	157.4	561.7
PRES 30.24IN	1.02BAR	P.R.	1.52	4.07		1.52	4.07	THRUST,IDL	LB	15095.2	10837	9.1 KN	67.146	482.092
WIND D		TEMP (R)	1439.7	1944.7	(K)	799.8	1080.4	THRUST,MEA	LB		0.0	KN	0.0	
WIND V 0MPH	0.0M/S	RHO LB/FT3	0.031	0.029	KG/M3	0.495	0.462	AREA (MOD)	SQFT	0.060	0.080	SQM	0.006	0.007
REL H 70.0%		VEL FPS	1400.6	2818.0	M/S	426.9	858.9	W (MODEL)	LB/S	2.4	8.6	KG/S	1.1	3.9

FAA DAY

1/3 OCTAVE BAND ENGINE JET NOISE DATA 150.0FT RADIUS (SCALED ENGINE)

BAND CENTER FREQ (KHZ)	MICROPHONE ANGLES IN DEGREES 60	70	80	90	100	110	120	130	140	150	160	POWER 1E-12W
.050	106.9	107.1	108.5	109.5	110.1	111.8	115.2	121.2	127.7	131.0	129.9	
.063	107.7	108.4	109.9	110.4	111.3	112.7	115.9	122.1	128.4	132.0	130.1	166.4
.080	108.2	108.5	109.6	110.2	112.0	114.4	117.6	123.1	128.9	131.9	130.2	167.2
.100	108.3	109.0	110.2	110.8	112.5	114.9	118.4	123.2	128.5	132.0	128.8	167.4
.125	107.4	108.8	110.0	111.0	112.5	114.9	119.0	123.5	128.8	132.0	127.6	167.3
.160	108.0	108.2	109.9	110.9	112.5	115.3	119.9	123.5	129.4	130.6	124.7	167.3
.200	110.3	108.9	110.5	111.4	113.0	116.2	121.1	124.4	129.9	128.7	123.3	166.8
.250	114.4	112.1	111.5	112.0	113.8	116.9	122.1	125.3	130.2	126.9	121.2	166.5
.315	114.4	115.4	114.7	112.9	114.3	117.5	122.3	126.0	128.7	124.9	119.4	166.7
.400	113.0	114.2	115.9	114.4	114.5	117.7	122.3	125.6	126.6	123.3	117.5	166.1
.500	112.7	113.0	115.0	116.2	115.5	117.9	122.0	125.1	125.6	121.7	115.9	165.1
.630	112.9	113.3	114.2	115.6	116.2	118.1	121.6	124.0	124.4	120.5	114.2	164.5
.800	112.2	113.9	114.5	114.9	116.4	117.9	121.0	122.9	123.1	119.4	113.0	163.6
1.00	111.7	113.2	114.8	114.7	115.5	117.7	119.7	121.7	121.9	118.1	111.6	163.0
1.25	110.8	112.6	114.6	114.7	115.4	117.5	119.1	120.8	121.1	116.9	110.8	162.1
1.60	109.5	111.5	113.4	114.0	114.4	116.0	118.2	119.4	120.0	115.7	109.5	161.5
2.00	108.6	110.6	112.8	113.9	114.3	116.0	117.2	118.9	119.2	115.4	109.3	160.3
2.50	108.0	110.4	112.7	113.4	114.1	115.4	117.2	118.9	118.9	114.8	108.6	159.7
3.15	108.4	110.9	113.4	114.3	114.4	116.4	117.4	119.5	119.6	115.6	109.5	159.5
4.00	108.6	111.4	113.5	114.5	115.1	116.9	118.7	120.5	120.0	116.3	110.3	160.1
5.00	109.0	111.5	114.0	115.0	116.1	117.7	119.4	121.2	120.7	116.9	110.7	160.8
6.30	110.1	112.7	115.8	116.5	117.8	119.1	121.3	122.9	123.1	118.9	112.5	161.5
8.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	163.3
10.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
												0.0

OAPWL = 178.2

OSPL	124.1	125.1	126.7	127.1	128.0	130.1	133.3	136.4	139.8	140.5	137.3
PNL	134.4	136.3	138.3	138.9	139.8	141.6	144.1	146.4	147.7	145.0	139.7

200. SIDELINE

PNL	130.3	132.9	135.3	136.1	136.9	138.2	139.9	141.0	140.5	135.6	127.0

370. SIDELINE

PNL	124.1	126.7	129.2	130.0	130.5	132.0	133.6	134.6	134.1	129.6	120.9

600. SIDELINE

PNL	115.5	118.2	120.6	121.5	121.9	123.4	124.7	125.8	126.1	121.5	112.6

2128. SIDELINE

PNL	103.4	105.6	107.7	108.2	108.7	110.1	112.6	114.0	114.6	110.3	101.2

5.1E-14

STAND X206 RIG ID 705308 TEST DATE 03/11/77 SCALE RATIO 12.0/1 RUN NUMBER 20086 CONDITION 8608

				PRIMARY	FAN		PRIMARY	FAN				PRIMARY	FAN		PRIMARY	FAN
TEMP	90°F	32.2°C	AREA	SQFT	0.0	0.0	SQM	0.0	0.0	MASS FLOW	LB/S	0.0	0.0	KG/S	0.0	0.0
PRES	30.31IN	1.03BAR	P.R.		1.99	1.30		1.99	1.30	THRUST,IDL	LB	171.3	90.4	KN	0.762	0.402
WIND D			TEMP	(R)	1453.7	1260.7	(K)	807.6	700.4	THRUST,MEA	LB		0.0	KN	0.0	
WIND V	0MPH	0.0M/S	RHO	LB/FT3	0.033	0.034	KG/M3	0.525	0.544	AREA (MOD)	SQFT	0.060	0.080	SQM	0.006	0.007
REL H	20 %		VEL	FPS	1773.8	1046.5	M/S	540.7	319.0	W (MODEL)	LB/S	3.1	2.8	KG/S	1.4	1.3

1/3 OCTAVE BAND MODEL JET NOISE DATA 15.0FT RADIUS THEORETICAL DAY SPL - (MODEL)

BAND CENTER FREQ (KHZ)	MICROPHONE ANGLES IN DEGREES 60	70	80	90	100	110	120	130	140	150	160	POWER 1E-12W
.050	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
.063	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
.080	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
.100	80.7	84.2	86.1	86.3	85.6	86.9	89.2	90.7	93.0	96.7	100.9	113.2
.125	81.2	85.3	85.3	87.0	88.5	88.6	88.2	91.4	95.9	96.4	101.4	114.5
.160	86.9	89.7	87.3	87.7	86.5	87.4	88.8	90.3	96.3	100.1	103.9	115.8
.200	85.7	85.6	86.1	87.4	88.4	89.5	92.4	93.9	100.2	104.7	107.6	119.2
.250	86.8	87.1	88.1	89.2	90.8	92.3	94.0	96.6	102.5	107.1	110.0	121.7
.315	88.9	88.0	93.2	91.1	92.7	93.7	96.2	99.9	104.6	109.5	113.1	124.3
.400	92.1	92.4	93.3	93.5	95.7	97.8	99.9	103.3	109.0	113.3	116.6	126.0
.500	95.7	94.2	94.7	96.0	96.6	98.3	101.1	104.2	111.8	116.2	116.3	129.9
.630	96.2	95.7	95.7	97.3	98.0	99.7	102.7	107.1	113.6	117.2	117.6	131.2
.800	95.3	97.3	97.6	98.0	99.8	100.3	102.7	107.9	114.9	118.5	117.6	132.3
1.00	97.4	96.8	97.3	98.0	100.3	102.5	105.0	109.3	116.3	118.4	117.9	132.9
1.25	96.8	96.3	98.4	98.9	101.4	102.4	105.5	109.8	116.1	118.0	116.6	132.6
1.60	96.3	97.8	97.9	98.7	100.9	102.3	105.1	109.5	115.3	117.1	115.5	131.8
2.00	96.3	96.6	97.3	98.6	100.7	102.0	105.2	109.2	114.1	115.2	112.7	130.4
2.50	94.4	95.6	96.3	97.6	100.1	101.6	105.3	108.9	112.4	113.0	110.2	128.9
3.15	93.0	94.3	95.4	96.7	99.6	101.2	104.9	107.9	110.1	110.4	105.1	127.1
4.00	91.8	93.4	94.5	96.0	99.0	100.8	104.4	106.8	107.8	106.3	99.1	125.2
5.00	91.0	92.4	93.6	95.1	98.1	99.7	103.4	105.2	105.1	101.8	93.9	123.3
6.30	90.2	91.6	92.9	94.6	97.6	99.3	102.6	103.7	102.9	97.4	90.1	121.8
8.00	88.6	90.7	92.0	93.6	96.7	98.1	101.2	101.8	100.1	93.9	86.9	120.1
10.0	87.4	89.4	91.0	92.7	95.6	97.0	99.9	99.3	97.6	91.5	85.4	118.5
12.5	86.4	88.2	89.6	91.5	94.2	95.8	98.0	97.2	95.2	89.5	84.2	116.7
16.0	85.0	87.1	88.9	90.5	93.5	94.6	96.6	95.3	93.6	88.2	83.0	115.4
20.0	83.1	85.3	86.8	88.4	91.4	92.5	94.4	92.9	91.3	86.7	81.7	113.2
25.0	81.8	84.0	85.7	87.9	90.2	91.7	92.6	91.4	90.0	86.2	81.6	112.0
31.5	80.7	83.1	85.1	86.7	89.5	89.9	91.7	90.3	89.2	85.9	80.5	110.9
40.0	80.6	83.1	85.0	86.9	89.2	90.4	91.0	90.4	89.3	86.8	82.2	110.9
50.0	80.3	83.1	84.6	86.5	89.0	90.1	91.2	90.3	89.7	87.8	84.7	111.0
63.0	79.7	82.3	84.1	85.9	86.8	89.5	90.8	90.2	90.3	89.7	86.7	110.9
80.0	80.5	82.6	84.9	86.3	89.3	89.7	91.6	91.1	93.4	91.6	88.7	112.0
100.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
OSPL	106.6	107.4	108.1	109.1	111.4	112.8	115.8	119.1	124.3	126.6	126.3	

OAPWL = 141.4

5.1E-15

20086F TAPE P7493 NASA VSCE (NAS3-20061) CONFIG. E

15.2049

STAND X206 RIG ID 705308 TEST DATE 03/11/77 SCALE RATIO 12.0/1 RUN NUMBER 2008 CONDITION 8608

				PRIMARY	FAN		PRIMARY	FAN		PRIMARY	FAN		PRIMARY	FAN
TEMP	77.0(F)	25.0(C)	AREA	SQFT	8.640	11.520	SQM	0.803	1.070	MASS FLOW LB/S	447.8	460.3	KG/S	203.1	181.6
PSES	30.31IN	1.03BAR	P.R.		1.99	1.30		1.99	1.30	THRUST,IDL LB	24670.7	13010.7	KG	109.740	57.874
WIND D			*TEMP	(R)	1453.7	1260.7	(K)	807.6	700.4	THRUST,MEA LB		0.0	KN	0.0	
WIND V	0MPH	0.0M/S	RHO	LB/FT3	0.033	0.034	KG/M3	0.525	0.544	AREA (MEA) SQFT	0.060	0.080	SQM	0.006	0.007
REL H	70.6%		VEL	FPS	1773.8	1046.5	M/S	540.7	319.0	W (MODEL) LB/S	3.1	2.8	KG/S	1.4	1.3

F/A DAY

1/3 OCTAVE BAND ENGINE JET NOISE DATA 150.0FT RADIUS (SCALED ENGINE)

BAND CENTER FREQ (KHZ)	MICROPHONE ANGLES IN DEGREES 50	70	80	90	100	110	120	130	140	150	160	POWER 1E-12W
.050	97.8	97.3	97.3	98.9	99.6	101.3	104.3	108.7	115.2	118.8	119.2	
.063	96.9	98.9	99.2	99.6	101.4	101.9	104.3	109.5	116.5	120.1	119.2	
.080	99.0	98.4	98.9	99.6	101.9	104.1	106.6	110.9	117.9	120.0	119.5	154.4
.100	98.4	99.9	100.0	100.5	103.0	104.0	107.1	111.4	117.7	119.6	118.2	155.4
.125	97.9	99.4	99.5	100.3	102.5	103.9	106.7	111.1	116.9	118.7	117.1	156.0
.160	97.8	98.3	98.8	100.1	102.2	103.5	106.7	110.7	115.6	116.7	114.2	155.7
.200	95.9	97.1	97.8	99.1	101.6	103.1	106.8	110.4	113.9	114.5	111.7	155.6
.250	94.5	95.8	96.9	98.2	101.1	102.7	106.4	109.4	111.6	111.9	106.6	155.5
.315	93.3	94.9	96.0	97.5	100.5	102.3	105.9	108.3	109.3	107.8	100.6	152.0
.400	92.5	93.9	95.1	96.6	99.6	101.2	104.9	106.7	106.6	103.3	95.4	150.2
.500	91.6	93.0	94.3	96.0	99.0	100.7	104.0	105.1	104.3	98.8	91.5	148.3
.630	90.0	92.1	93.4	95.0	98.1	99.5	102.6	103.2	101.5	95.3	88.3	148.3
.800	88.8	90.8	92.3	94.1	97.0	98.4	101.3	100.7	99.0	92.9	85.8	144.8
1.00	87.7	89.5	90.9	92.8	95.5	97.1	99.3	98.5	96.5	90.8	85.5	143.1
1.25	86.2	88.3	90.1	91.7	94.7	95.8	97.8	96.5	94.8	89.4	84.2	141.4
1.60	84.2	86.4	87.9	89.5	92.5	93.6	95.5	94.0	92.4	87.8	82.8	139.6
2.00	82.9	85.1	86.8	89.0	91.3	92.8	93.7	92.5	91.1	87.3	82.7	138.2
2.50	81.6	84.0	86.0	87.6	90.4	90.8	92.6	91.2	90.1	86.8	81.4	136.6
3.15	81.3	83.8	85.7	87.6	89.9	91.1	91.7	91.1	90.0	87.5	82.9	134.7
4.00	80.8	83.6	85.1	87.0	89.5	90.6	91.7	90.8	90.2	88.3	85.2	133.4
5.00	80.0	82.6	84.4	86.2	89.1	89.8	91.1	90.5	90.6	90.0	87.0	133.2
6.30	80.5	82.6	84.9	86.3	89.3	89.7	91.6	91.1	93.4	91.6	88.7	133.0
8.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	132.7
10.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	133.5
												0.0
												0.0

5.1E-16

OASPL 107.3 108.3 108.9 110.0 112.4 113.8 116.9 120.3 125.3 127.3 126.2

PNL 111.6 113.3 114.6 116.2 118.7 120.0 122.6 124.3 126.7 126.8 124.2

OAPWL = 163.8

200. SIDELINE

PNL 107.7 110.0 111.8 113.5 115.9 116.8 118.7 119.3 120.1 118.0 111.9

370. SIDELINE

PNL 102.0 104.3 105.9 107.6 110.0 111.0 113.0 113.6 114.5 112.3 106.1

800. SIDELINE

PNL 94.3 96.6 98.2 99.8 102.4 103.3 105.4 106.1 107.0 104.8 98.5

2128. SIDELINE

PNL 83.2 85.8 87.3 88.9 91.5 92.4 94.6 95.6 96.8 94.7 88.2

STAND X206 RIG ID 705308 TEST DATE 03/11/77 SCALE RATIO 12.0/1 RUN NUMBER 20086 CONDITION 8669

					PRIMARY	FAN		PRIMARY	FAN			PRIMARY	FAN		PRIMARY	FAN
TEMP	88°F	31.1°C	AREA	SQFT	0.0	0.0	SQM	0.0	0.0	MASS FLOW	LB/S	0.0	0.0	KG/S	0.0	0.0
PRES	30.31IN	1.03BAR	P.R.		1.99	1.79		1.99	1.79	THRUST,IDL	LB	171.3	217.7	KN	0.762	0.968
WIND D			TEMP	(R)	1457.7	1262.7	(K)	809.8	703.5	THRUST,MEA	LB		0.0	KN	0.0	
WIND V	0MPH	0.0M/S	RHO	LB/FT3	0.033	0.037	KG/M3	0.524	0.591	AREA (MOD)	SQFT	0.060	0.080	SQM	0.006	0.007
REL H	20 %		VEL	FPS	1779.2	1530.3	M/S	542.3	466.4	W (MODEL)	LB/S	3.1	4.6	KG/S	1.4	2.1

1/3 OCTAVE BAND MODEL JET NOISE DATA 15.0FT RADIUS THEORETICAL DAY SPL - (MODEL)

BAND CENTER FREQ (KHZ)	MICROPHONE ANGLES IN DEGREES 60	70	80	90	100	110	120	130	140	150	160	PWLR 1E-12W
.050	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
.063	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
.080	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
.100	84.2	87.7	89.7	89.9	89.5	90.4	92.3	93.9	96.3	100.1	104.4	116.6
.125	85.7	89.4	89.4	90.7	92.4	92.5	91.7	94.9	99.3	103.9	105.4	118.2
.160	90.9	93.6	91.3	91.5	90.6	91.3	92.2	93.6	99.7	103.8	107.7	119.5
.200	89.4	89.4	90.0	91.3	92.3	93.6	95.6	97.6	103.9	108.1	110.5	122.7
.250	90.3	90.5	91.8	93.3	94.4	95.7	97.5	100.0	106.0	110.6	113.3	125.1
.315	91.7	91.2	92.9	94.7	96.4	97.2	99.4	102.1	107.9	112.8	116.4	127.6
.400	95.3	95.8	96.4	96.8	99.0	100.9	103.3	106.7	112.5	116.4	119.8	131.2
.500	97.8	98.6	97.4	98.7	99.6	101.3	104.1	107.7	115.4	119.3	119.0	133.6
.630	98.5	98.4	98.3	100.3	101.6	102.6	105.6	110.5	117.0	120.2	120.1	134.3
.800	98.1	99.4	99.9	101.2	103.0	103.4	105.7	111.4	118.2	121.4	119.7	135.2
1.00	100.1	99.9	100.1	101.2	103.7	105.6	108.0	112.8	119.6	121.6	120.8	136.1
1.25	99.9	101.1	101.9	102.6	104.7	105.6	108.7	112.9	118.9	121.4	119.8	135.7
1.60	99.1	100.8	101.4	102.0	104.1	105.4	108.2	112.4	117.7	120.3	118.9	134.8
2.00	99.1	99.6	100.4	101.5	103.9	105.1	108.3	111.9	116.0	118.2	116.3	133.1
2.50	97.4	98.5	99.5	101.0	103.5	104.8	108.3	111.6	114.7	115.9	114.3	131.7
3.15	96.7	97.9	98.8	100.5	103.2	104.7	108.0	110.6	112.8	113.1	110.5	130.1
4.00	94.9	97.3	98.3	99.9	102.8	104.4	107.5	109.6	110.6	109.8	107.5	128.5
5.00	95.3	96.2	97.5	99.2	102.0	103.5	106.7	108.0	108.2	106.5	104.2	126.8
6.30	94.6	95.8	97.1	98.8	101.5	103.0	106.0	106.6	106.3	103.9	101.8	125.3
8.00	93.1	94.9	96.2	98.0	100.8	102.1	104.7	105.0	104.1	101.6	99.5	124.1
10.0	92.0	93.9	95.4	97.2	99.9	101.2	103.6	103.2	102.4	100.1	97.9	122.8
12.5	91.1	92.7	94.3	96.1	98.7	100.1	102.2	101.6	100.6	98.5	96.5	121.4
16.0	89.9	92.0	93.7	95.3	96.1	99.3	100.9	100.2	99.6	97.5	95.9	120.4
20.0	88.2	90.4	92.0	93.5	96.6	97.4	99.2	98.2	97.9	95.6	94.1	118.6
25.0	87.0	89.0	90.9	92.9	95.4	96.7	97.6	97.1	96.7	95.0	93.3	117.6
31.5	86.1	88.2	90.4	92.0	94.7	95.4	96.9	96.2	95.9	93.8	92.0	116.6
40.0	85.7	88.4	90.5	92.1	94.8	95.6	96.4	96.3	95.8	94.2	92.3	116.6
50.0	85.7	88.3	90.0	91.8	94.4	95.6	96.6	96.0	95.4	94.6	92.4	116.6
63.0	85.2	87.7	89.8	91.5	94.6	95.2	96.3	95.9	95.3	94.7	92.9	116.5
80.0	86.1	88.2	90.6	91.9	95.0	95.3	97.0	96.4	97.4	96.1	95.1	116.4
100.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	117.2
												0.0
OSPL	109.7	110.6	111.5	112.7	115.0	116.3	119.1	122.3	127.3	129.8	129.3	OAPWL = 144.6

5.1E-17

STAND X206 RIG ID 705308 TEST DATE 03/11/77 SCALE RATIO 12.0/1 RUN NUMBER 2008 CONDITION 8609

			PRIMARY	FAN		PRIMARY	FAN			PRIMARY	FAN		PRIMARY	FAN
TEMP	77.0(F)	25.0(C)	AREA SQFT	8.600	11.520	SQM	0.803	1.070	MASS FLOW LB/S	446.4	659.5	KG/S	202.5	299.2
PRES	30.31IN	1.03BAR	P.R.	1.99	1.79		1.99	1.79	THRUST,IDL LB	24666.3	31343.8	KN	109.721	139.423
WIND D			TEMP (R)	1457.7	1262.7	(K)	809.8	701.5	THRUST,MEA LB		0.0	KN	0.0	
WIND V	0.0MPH	0.0M/S	RHO LB/FT3	0.033	0.037	KG/M3	0.524	0.591	AREA (MOD) SQFT	0.060	0.060	SQM	0.006	0.007
REL H	70.0%		VEL FPS	1779.2	1530.3	M/S	542.3	466.4	W (MODEL) LB/S	3.1	4.6	KG/S	1.4	2.1

FAA DAY 1/3 OCTAVE BAND ENGINE JET NOISE DATA 150.0FT RADIUS (SCALED ENGINE)

BAND CENTER FREQ (KHZ)	MICROPHONE ANGLES IN DEGREES 60	70	80	90	100	110	120	130	140	150	160	POWER 1E-12W
.050	100.1	100.0	99.9	101.9	102.6	104.2	107.2	112.1	118.6	121.8	121.7	157.4
.063	99.7	101.0	101.5	102.8	104.6	105.0	107.3	113.0	119.8	123.0	121.3	158.4
.080	101.7	101.5	101.7	102.8	105.3	107.2	109.6	114.4	121.2	123.2	122.4	159.2
.100	101.5	102.7	103.5	104.2	106.3	107.2	110.3	114.5	120.5	123.0	121.4	159.5
.125	100.7	102.4	103.0	103.6	105.7	107.0	109.8	114.0	119.3	121.9	120.5	157.9
.160	100.6	101.1	101.9	103.0	105.4	106.6	109.8	113.4	117.5	119.7	117.8	156.2
.200	98.9	100.1	101.0	102.5	105.0	106.3	109.8	113.1	116.2	117.4	115.8	154.9
.250	98.2	99.4	100.3	102.0	104.8	106.2	109.5	112.1	114.3	114.6	112.0	153.2
.315	97.4	98.8	99.8	101.4	104.3	105.9	109.0	111.1	112.1	111.3	109.0	151.5
.400	96.8	97.7	99.0	100.7	103.5	105.0	108.2	109.5	109.7	108.0	105.7	149.4
.500	96.0	97.2	98.5	100.2	102.9	104.4	107.4	108.0	107.7	105.3	103.2	148.5
.630	94.5	96.3	97.6	99.4	102.2	103.5	106.1	106.4	105.5	103.0	100.9	147.1
.800	93.4	95.3	96.8	98.6	101.3	102.6	105.0	104.6	103.8	101.5	99.3	145.8
1.00	92.4	94.0	95.6	97.4	100.0	101.4	103.5	102.9	101.9	99.8	97.8	144.3
1.25	91.1	93.2	94.9	96.5	99.3	100.5	102.1	101.4	100.8	98.7	97.1	143.2
1.60	89.3	91.5	93.1	94.6	97.7	98.5	100.3	99.3	99.0	96.7	95.2	141.4
2.00	88.1	90.1	92.0	94.0	96.5	97.8	98.7	98.2	97.8	96.1	94.4	140.2
2.50	87.0	89.1	91.3	92.9	95.6	96.3	97.8	97.1	96.8	94.7	92.9	139.1
3.15	86.4	89.1	91.2	92.8	95.5	96.3	97.1	97.0	96.5	94.9	93.0	138.9
4.00	86.2	88.8	90.5	92.3	94.9	96.1	97.1	96.5	95.9	95.1	92.9	138.6
5.00	85.5	88.0	90.1	91.8	94.9	95.5	96.6	96.2	95.6	95.0	93.2	138.3
6.30	86.1	88.2	90.6	91.9	95.0	95.3	97.0	96.4	97.4	96.1	95.1	138.7
8.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

OAPWL = 166.9

OSPL	110.5	111.5	112.3	113.7	116.0	117.3	120.2	123.4	128.2	130.5	129.2
PNL	115.8	117.7	119.2	120.8	123.4	124.5	126.5	127.9	130.2	131.0	129.4

200. SIDELINE

PNL	111.8	114.4	116.4	118.1	120.6	121.2	122.5	122.9	123.6	122.2	117.0

370. SIDELINE

PNL	106.1	108.5	110.5	112.2	114.6	115.2	116.8	117.2	117.9	116.4	111.1

800. SIDELINE

PNL	98.3	100.6	102.4	104.1	106.6	107.4	109.1	109.6	110.3	108.8	103.3

2128. SIDELINE

PNL	87.2	89.6	91.3	93.1	95.6	96.4	98.1	98.9	99.9	98.5	92.6

STAND X206 RIG ID 705308 TEST DATE 03/11/77 SCALE RATIO 12.0/1 RUN NUMBER 20086 CONDITION 8610

					PRIMARY	FAN		PRIMARY	FAN
TEMP	89°F	31.7°C	AREA	SQFT	0.0	0.0	SQM	0.0	0.0
PRES	30.311N	1.036AR	P.R.		2.00	2.48		2.00	2.48
WIND D			TEMP	(R)	1461.7	1264.7	(K)	812.1	702.6
WIND V	0MPH	0.0M/S	RHO	LB/FT3	0.033	0.040	KG/M3	0.523	0.642
REL H	20 %		VEL	FPS	1782.7	1872.5	M/S	543.4	570.7

		PRIMARY	FAN		PRIMARY	FAN
MASS FLOW	LB/S	0.0	0.0	KG/S	0.0	0.0
THRUST,IDL	LB	171.1	375.7	KN	0.761	1.671
THRUST,MEA	LB		0.0	KN	0.0	
AREA (MOD)	SQFT	0.060	0.080	SQM	0.006	0.007
W (MODEL)	LB/S	3.1	6.5	KG/S	1.4	2.9

1/3 OCTAVE BAND MODEL JET NOISE DATA 15.0FT RADIUS

THEORETICAL DAY SPL - (MODEL)

BAND CENTER FREQ (KHZ)	MICROPHONE ANGLES IN DEGREES 60	70	80	90	100	110	120	130	140	150	160	POWER 1E-12W
.050	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
.063	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
.080	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
.100	88.2	91.7	94.3	93.2	92.8	93.9	95.7	97.2	99.6	103.8	108.1	0.0
.125	89.7	93.3	93.3	94.3	95.4	95.4	95.2	98.0	101.9	105.0	108.7	120.2
.160	94.7	97.2	94.5	95.1	94.1	94.4	95.6	96.8	102.7	107.1	111.0	121.3
.200	95.2	93.0	93.5	94.9	95.7	96.5	99.0	100.8	106.7	111.3	113.8	122.8
.250	94.5	94.2	95.5	96.5	97.6	98.7	100.6	103.1	108.9	113.7	116.5	125.9
.315	94.6	94.6	99.1	98.0	99.4	100.3	102.9	106.3	110.9	116.0	119.5	128.2
.400	98.8	99.1	99.5	99.8	101.7	103.6	106.0	109.4	115.4	119.5	123.0	130.7
.500	100.6	99.6	100.5	101.8	102.3	103.8	106.9	110.8	118.4	122.7	122.0	134.3
.630	101.6	101.5	101.8	103.7	104.1	105.3	108.7	113.6	120.2	123.5	123.1	136.2
.800	101.4	102.7	103.2	104.3	105.9	106.0	108.9	114.3	121.2	124.6	123.2	137.5
1.00	103.0	103.5	103.6	104.5	106.8	108.6	110.9	115.4	122.1	124.9	124.5	138.4
1.25	103.9	104.2	105.2	105.9	107.9	108.6	111.6	115.7	121.4	124.8	124.1	139.1
1.60	103.1	104.8	105.1	105.9	107.6	108.4	111.6	115.4	120.2	124.7	123.8	138.9
2.00	103.8	103.9	104.6	105.7	107.6	108.7	111.8	115.0	119.2	123.7	122.3	138.5
2.50	102.6	103.1	104.0	105.3	107.4	108.6	112.2	115.1	118.7	123.0	122.0	137.6
3.15	102.3	102.9	103.4	104.8	107.3	108.7	112.2	114.5	118.0	121.9	119.5	137.1
4.00	101.3	102.4	103.0	104.5	107.0	108.5	112.1	114.0	117.0	120.1	117.5	136.2
5.00	101.1	101.7	102.3	103.8	106.5	108.0	111.4	112.9	115.8	118.2	115.1	135.1
6.30	100.9	101.4	102.2	103.7	106.2	107.8	111.1	112.2	115.3	116.8	113.4	133.7
8.00	99.3	100.9	101.9	103.2	105.8	107.1	110.3	111.2	114.0	115.2	111.6	132.4
10.0	97.7	99.8	101.3	102.7	105.2	106.3	109.6	109.9	112.7	113.7	110.0	131.8
12.5	97.2	98.7	100.1	102.1	104.5	105.8	108.4	108.7	111.1	112.3	108.8	130.6
16.0	96.3	98.3	99.8	101.3	104.1	105.3	107.7	107.7	110.0	111.3	108.1	129.4
20.0	94.8	96.9	98.5	99.9	102.7	103.8	106.4	105.9	108.5	109.8	106.6	128.6
25.0	94.0	95.9	97.7	99.7	102.1	103.4	105.2	105.0	107.3	109.1	106.1	127.1
31.5	93.2	95.3	97.4	99.1	101.5	102.3	104.7	104.5	106.9	108.5	105.4	126.3
40.0	93.2	95.7	97.5	99.3	101.7	102.8	104.3	104.9	107.0	109.4	106.2	125.7
50.0	93.2	95.6	97.4	99.3	101.7	102.8	105.2	105.1	107.1	109.5	106.5	126.0
63.0	92.7	95.3	97.3	99.3	102.1	102.6	105.0	105.2	107.2	110.3	106.9	126.2
80.0	93.5	95.9	98.4	99.9	102.8	103.2	106.0	106.2	109.2	112.1	108.6	126.5
100.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	127.3
												0.0
OSPL	114.2	115.0	115.9	117.1	119.2	120.4	123.4	126.0	130.9	134.4	133.7	OAPWL = 148.8

STAND X206 RIG ID 705308 TEST DATE 03/11/77 SCALE RATIO 12.0/1 RUN NUMBER 2008 CONDITION 8610

				PRIMARY	FAN		PRIMARY	FAN			PRIMARY	FAN		PRIMARY	FAN
TEMP	77.0(F)	25.0(C)	AREA SQFT	8.640	11.520	SQM	0.803	1.070	MASS FLOW	LB/S	445.0	930.2	KG/S	201.8	422.0
PRES	30.31IN	1.03BAR	P.R.	2.00	2.48		2.00	2.48	THRUST,IDL	LB	24634.5	54095.7	KN	109.579	240.628
WIND D			TEMP (R)	1461.7	1264.7	(K)	812.1	702.6	THRUST,MEA	LB		0.0	KN	0.0	
WIND V	0MPH	0.0M/S	RHO LB/FT3	0.033	0.040	KG/M3	0.523	0.642	AREA (MOD)	SQFT	0.060	0.080	SQM	0.006	0.007
REL H	70.0%		VEL FPS	1782.7	1872.5	M/S	543.4	570.7	W (MODEL)	LB/S	3.1	6.5	KG/S	1.4	2.9

FAA DAY

1/3 OCTAVE BAND ENGINE JET NOISE DATA 150.0FT RADIUS (SCALED ENGINE)

BAND CENTER FREQ (KHZ)	MICROPHONE ANGLES IN DEGREES 60	70	80	90	100	110	120	130	140	150	160	POWER 1E-12W
.050	103.2	103.1	103.4	105.3	105.7	106.9	110.3	115.2	121.8	125.1	124.7	160.6
.063	103.0	104.3	104.8	105.9	107.5	107.6	110.5	115.9	122.8	126.2	124.8	161.5
.080	104.6	105.1	105.2	106.1	108.4	110.2	112.5	117.0	123.7	126.5	126.1	162.3
.100	105.5	105.8	106.8	107.5	109.5	110.2	113.2	117.3	123.0	126.4	125.7	162.1
.125	104.7	106.4	106.7	107.5	109.2	110.0	113.2	117.0	121.8	126.3	125.4	161.7
.160	105.3	105.4	106.1	107.2	109.1	110.2	113.3	116.5	120.7	125.2	123.8	160.7
.200	104.1	104.6	105.5	106.8	108.9	110.1	113.7	116.6	120.2	124.5	123.5	160.3
.250	103.8	104.4	104.9	106.3	108.8	110.2	113.7	116.0	119.5	123.4	121.0	159.3
.315	102.8	103.9	104.5	106.6	108.5	110.0	113.6	115.5	118.5	121.6	119.0	158.2
.400	102.6	103.2	103.8	105.3	108.0	109.5	112.9	114.4	117.3	119.7	116.6	156.8
.500	102.3	102.8	103.6	105.1	107.6	109.2	112.5	113.6	116.7	118.2	114.8	155.4
.630	100.7	102.3	103.3	104.6	107.2	108.5	111.7	112.6	115.4	116.6	113.0	154.8
.800	99.1	101.2	102.7	104.1	106.6	107.7	111.0	111.3	114.1	115.1	111.4	153.6
1.00	98.5	100.0	101.4	103.4	105.8	107.1	109.7	110.0	112.4	113.6	110.1	152.3
1.25	97.5	99.5	101.0	102.5	105.3	106.5	108.9	108.9	111.2	112.5	109.3	151.4
1.60	95.9	98.0	99.6	101.0	103.8	104.9	107.5	107.0	109.6	110.9	107.7	149.8
2.00	95.1	97.0	98.8	100.8	103.2	104.5	106.3	106.1	108.4	110.2	107.2	148.9
2.50	94.1	96.2	98.3	100.0	102.4	103.2	105.6	105.4	107.8	109.4	106.3	148.1
3.15	93.9	96.4	98.2	100.0	102.4	103.5	105.0	105.6	107.7	110.1	106.9	148.3
4.00	93.7	96.1	97.9	99.8	102.2	103.3	105.7	105.6	107.6	110.0	107.0	148.3
5.00	93.0	95.6	97.6	99.6	102.4	102.9	105.3	105.5	107.5	110.6	107.2	148.3
6.30	93.5	95.9	98.4	99.9	102.8	103.2	106.0	106.2	109.2	112.1	108.6	149.3
8.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

5.1E-20

OAPWL = 171.2

USPL	115.1	116.0	116.8	118.1	120.3	121.4	124.5	127.2	131.9	135.3	134.1
PNL	122.1	123.8	125.2	126.8	129.2	130.3	132.9	133.9	136.9	139.7	137.7

200. SIDELINE

PNL	118.0	120.6	122.4	124.1	126.4	127.0	128.8	128.7	130.1	130.7	125.1

370. SIDELINE

PNL	112.0	114.5	116.4	118.2	120.4	121.0	122.7	122.6	124.2	124.7	119.0

800. SIDELINE

PNL	104.1	106.3	108.2	109.9	112.1	112.7	114.5	114.8	116.3	116.7	110.7

2128. SIDELINE

PNL	92.9	95.0	96.6	98.2	100.5	101.2	103.3	103.6	105.2	105.5	99.2

STAND X206 RIG ID 705308 TEST DATE 03/11/77 SCALE RATIO 12.0/1 RUN NUMBER 20086 CONDITION 8611

					PRIMARY	FAN		PRIMARY	FAN			PRIMARY	FAN		PRIMARY	FAN
TEMP	88°F	31.1°C	AREA	SQFT	0.0	0.0	SQM	0.0	0.0	MASS FLOW	LB/S	0.0	0.0	KG/S	0.0	0.0
PRES	30.31IN	1.03BAR	P.R.		2.00	3.18		2.00	3.18	THRUST,IDL	LB	171.4	538.6	KN	0.762	2.396
WIND D			TEMP	(R)	1460.7	1256.7	(K)	811.5	698.2	THRUST,MEA	LB		0.0	KN	0.0	
WIND V		0MPH 0.0M/S	RHO	LB/FT3	0.033	0.043	KG/M3	0.523	0.690	AREA (MOD)	SQFT	0.060	0.080	SQM	0.006	0.007
REL H	20 %		VEL	FPS	1786.2	2074.5	M/S	544.4	632.3	W (MODEL)	LB/S	3.1	8.4	KG/S	1.4	3.8

1/3 OCTAVE BAND MODEL JET NOISE DATA 15.0FT RADIUS THEORETICAL DAY SPL - (MODEL)

BAND CENTER FREQ (KHZ)	MICROPHONE ANGLES IN DEGREES 60	70	80	90	100	110	120	130	140	150	160	POWER 1E-12W
.050	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
.063	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
.080	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
.100	91.1	94.5	96.3	95.4	95.4	96.7	98.6	99.9	102.4	106.5	111.2	0.0
.125	92.9	96.2	95.7	96.6	98.0	97.8	97.7	100.2	104.2	107.7	111.7	123.0
.160	97.6	99.9	97.2	97.6	96.9	97.1	98.2	99.1	105.1	109.7	114.0	123.9
.200	96.3	96.1	96.6	97.8	98.6	99.6	101.9	103.1	109.2	113.8	116.7	125.5
.250	97.8	97.6	98.8	99.1	100.2	101.5	103.3	105.5	111.2	116.1	119.4	128.5
.315	97.5	97.7	101.2	100.4	102.3	103.1	105.8	108.6	113.2	118.7	122.5	130.8
.400	101.6	101.5	102.0	102.2	104.4	106.2	108.4	111.8	117.9	122.2	126.0	133.4
.500	102.9	102.4	102.9	103.6	104.3	106.2	109.2	112.9	120.8	125.1	124.9	137.0
.630	103.9	103.9	104.0	105.4	106.2	107.5	110.8	115.8	122.3	126.1	125.8	138.7
.800	103.7	104.7	105.2	106.3	108.0	108.1	110.9	116.3	123.3	127.0	126.0	139.9
1.00	104.9	105.8	105.8	106.2	108.8	110.7	113.1	117.4	124.1	127.3	127.5	140.7
1.25	106.4	106.3	107.5	107.8	110.1	110.9	113.8	117.8	123.7	127.8	126.9	141.5
1.60	105.1	106.8	107.2	107.7	109.8	110.9	113.8	117.6	122.9	126.1	126.5	141.6
2.00	105.6	106.2	106.7	107.6	110.0	110.9	114.3	117.7	122.8	127.7	125.0	141.5
2.50	105.2	105.5	106.1	107.2	109.6	110.9	114.8	117.8	122.9	126.9	123.6	141.0
3.15	106.4	106.1	106.0	106.9	109.8	111.0	115.0	117.5	123.2	125.5	120.7	140.6
4.00	106.1	107.0	106.9	106.9	109.7	111.2	115.1	117.3	123.1	123.3	119.0	139.8
5.00	105.0	106.1	106.8	107.4	109.5	110.8	114.8	116.7	122.3	121.2	116.6	139.0
6.30	104.5	105.3	106.3	107.5	109.9	111.1	114.8	116.5	121.7	120.1	114.9	137.9
8.00	103.9	104.9	105.7	106.8	109.6	110.9	114.0	115.8	120.1	118.6	113.2	137.3
10.0	104.0	105.0	105.6	106.5	109.4	110.5	113.7	114.8	119.1	117.7	112.0	136.2
12.5	104.6	105.2	105.5	106.3	108.6	110.1	112.9	113.8	117.6	116.4	110.7	135.4
16.0	104.8	106.0	106.2	106.6	108.6	109.7	112.4	113.0	116.8	115.5	110.3	134.4
20.0	103.4	105.5	106.2	106.9	107.8	108.5	111.1	111.4	115.6	114.1	109.0	133.8
25.0	102.4	104.3	105.9	106.6	107.9	108.4	110.1	110.8	114.8	113.5	108.7	132.7
31.5	101.6	103.8	105.5	106.4	108.2	107.9	110.0	110.3	114.8	113.2	108.1	132.2
40.0	101.6	104.3	105.9	107.0	108.7	109.0	110.1	110.9	115.2	114.3	108.9	131.9
50.0	101.6	104.3	105.9	107.2	109.0	109.5	111.0	111.5	115.7	114.6	109.4	132.5
63.0	101.4	103.8	105.8	107.0	109.7	109.6	111.3	112.0	116.0	115.3	109.8	133.0
80.0	102.3	104.5	107.0	108.0	110.7	110.6	112.7	113.4	118.8	117.4	111.8	133.4
100.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	135.2
												0.0
OSPL	118.1	119.1	119.9	120.7	122.9	123.8	126.7	129.2	134.8	137.5	136.3	OAPWL = 152.1

5.1E-21

STAND X206 RIG ID 705308 TEST DATE 03/11/77 SCALE RATIO 12.0/1 RUN NUMBER 2008 CONDITION 8611

				PRIMARY	FAN		PRIMARY	FAN			PRIMARY	FAN		PRIMARY	FAN
TEMP	77.0(F)	25.0(C)	AREA	SQFT	8.640	11.520	SQM	0.803	1.070	MASS FLOW	LB/S	445.0	1203.8	KG/S	201.8	546.1
PRES	30.311N	1.038AR	P.R.		2.00	3.16		2.00	3.18	THRUST,IDL	LB	24682.3	77557.3	KN	109.792	344.990
WIND D			TEMP	(R)	1460.7	1256.7	(K)	811.5	698.2	THRUST,MEA	LB		0.0	KN	0.0	
WIND V	0MPH	0.0M/S	RHO	LB/FT3	0.033	0.043	KG/M3	0.523	0.690	AREA (MOD)	SQFT	0.060	0.080	SQM	0.006	0.007
REL H	70.0%		VEL	FPS	1786.2	2074.5	M/S	544.4	632.3	W (MODEL)	LB/S	3.1	8.4	KG/S	1.4	3.8

FAA DAY 1/3 OCTAVE BAND ENGINE JET NOISE DATA 150.0FT RADIUS (SCALED ENGINE)

BAND CENTER FREQ (KHZ)	MICROPHONE ANGLES IN DEGREES 60	70	80	90	100	110	120	130	140	150	160	POWER 1E-12W
.050	105.5	105.5	105.6	107.0	107.8	109.1	112.4	117.4	123.9	127.7	127.4	163.1
.063	105.3	106.3	106.8	107.9	109.6	109.7	112.5	117.9	124.9	128.6	127.6	163.8
.080	106.5	107.4	107.4	107.8	110.-	112.3	114.7	119.0	125.7	128.9	129.1	164.6
.100	108.0	107.9	109.1	109.4	111.7	112.5	115.4	119.4	125.3	129.4	128.5	164.7
.125	106.7	108.4	108.8	109.3	111.4	112.5	115.4	119.2	124.5	129.7	128.1	164.6
.160	107.1	107.7	108.2	109.1	111.5	112.4	115.8	119.2	124.3	129.2	126.5	164.2
.200	106.7	107.0	107.6	108.7	111.1	112.4	116.3	119.3	124.4	128.4	125.1	163.7
.250	107.9	107.6	107.5	108.4	111.3	112.5	116.5	119.0	124.7	127.0	122.2	162.9
.315	107.6	108.5	108.4	108.4	111.2	112.7	116.6	118.8	124.6	124.8	120.5	162.1
.400	106.5	107.6	108.3	108.9	111.0	112.3	116.3	118.2	123.6	122.7	118.1	161.0
.500	105.9	106.7	107.7	108.9	111.3	112.5	116.2	117.9	123.1	121.5	116.3	160.4
.630	105.3	106.3	107.1	108.2	111.2	112.3	115.4	117.2	121.5	120.0	114.6	159.2
.800	105.4	106.4	107.0	107.9	110.8	111.9	115.1	116.2	120.5	119.1	113.4	158.4
1.00	105.9	106.5	106.8	107.6	109.9	111.4	114.2	115.1	118.9	117.7	112.0	157.3
1.25	106.0	107.2	107.4	107.8	109.8	110.9	113.6	114.2	116.0	116.7	111.5	156.7
1.60	104.5	106.6	107.3	107.0	108.9	109.6	112.2	112.5	116.7	115.2	110.1	155.4
2.00	103.5	105.4	107.0	107.7	109.0	109.5	111.2	111.9	115.9	114.6	109.8	154.8
2.50	102.5	104.7	106.4	107.3	109.1	108.8	110.9	111.2	115.7	114.1	109.0	154.4
3.15	102.3	105.0	106.6	107.7	109.4	109.7	110.8	111.6	115.9	115.0	109.6	154.8
4.00	102.1	104.8	106.4	107.7	109.5	110.0	111.5	112.0	116.2	115.1	109.9	155.0
5.00	101.7	104.1	106.1	107.3	110.0	109.9	111.6	112.3	116.3	115.6	110.1	155.2
6.30	102.3	104.5	107.0	108.0	110.7	110.6	112.7	113.4	118.8	117.4	111.8	156.7
8.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

OAPWL = 174.6

OSPL	119.1	120.1	120.8	121.6	123.8	124.8	127.8	130.4	135.8	138.5	136.6
PNL	128.7	130.5	131.7	132.6	134.7	135.3	137.6	138.9	143.8	143.7	139.8

200. SIDELINE

PNL	124.6	127.2	128.9	129.9	131.8	132.0	133.5	133.6	136.6	134.6	127.2

370. SIDELINE

PNL	118.5	121.1	122.8	123.9	125.8	125.9	127.3	127.4	130.3	128.6	121.1

800. SIDELINE

PNL	110.0	112.7	114.4	115.4	117.3	117.4	118.7	118.9	122.1	120.5	112.8

2128. SIDELINE

PNL	97.8	100.0	101.5	102.5	104.3	104.7	106.9	107.4	110.4	109.1	101.4

5.1E-22

STAND X206 RIG ID 070530 TEST DATE 03/11/77 SCALE RATIO 12.0/1 RUN NUMBER 20086 CONDITION 8612

					PRIMARY	FAN		PRIMARY	FAN			PRIMARY	FAN		PRIMARY	FAN
TEMP	95°F	35°C	AREA	SQFT	0.0	0.0	SQM	0.0	0.0	MASS FLOW	LB/S	0.0	0.0	KG/S	0.0	0.0
PRES	30.24IN	1.02BAR	P.R.		2.00	1.79		2.00	1.79	THRUST,IDL	LB	178.9	215.9	KN	0.796	0.960
WIND D			TEMP	(R)	1457.7	1972.7	(K)	809.8	1095.9	THRUST,MEA	LB		0.0	KN	0.0	
WIND V	0MPH	0.0M/S	RHO	LB/FT3	0.033	0.023	KG/M3	0.524	0.373	AREA (MOD)	SQFT	0.060	0.080	SQM	0.006	0.007
REL H	17 %		VEL	FPS	1783.1	1914.8	M/S	543.5	583.6	W (MODEL)	LB/S	3.2	3.6	KG/S	1.5	1.6

1/3 OCTAVE BAND MODEL JET NOISE DATA 15.0FT RADIUS THEORETICAL DAY SPL - (MODEL)

BAND CENTER FREQ (KHZ)	MICROPHONE ANGLES IN DEGREES 60	70	80	90	100	110	120	130	140	150	160	POWER 1E-12W
.050	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
.063	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
.080	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
.100	86.4	89.5	93.6	91.8	91.0	92.4	94.0	96.4	98.3	102.5	106.4	118.8
.125	86.5	90.1	91.9	92.4	93.9	93.6	93.3	97.6	100.9	104.0	107.2	120.0
.160	92.8	95.2	93.6	93.3	92.4	92.9	93.4	95.5	101.3	105.8	109.6	121.3
.200	91.6	90.1	90.3	91.8	92.9	94.3	95.9	96.8	105.1	110.0	112.4	124.3
.250	92.5	91.9	93.3	94.5	95.4	97.0	98.4	101.8	107.8	112.7	115.2	127.0
.315	94.3	92.8	99.4	96.4	97.3	98.3	100.2	105.0	109.3	114.8	117.9	129.3
.400	97.2	96.9	98.5	97.2	99.4	101.7	103.9	108.3	113.5	117.8	120.9	132.4
.500	99.3	97.3	98.4	99.8	99.9	101.8	104.7	109.4	116.4	120.7	119.8	134.2
.630	98.8	98.8	100.1	100.9	101.4	103.4	106.4	111.9	118.0	121.6	120.6	135.4
.800	99.2	100.1	101.5	102.3	103.1	104.2	106.9	112.7	118.8	122.5	120.7	136.2
1.00	100.8	100.4	101.8	102.4	103.8	106.3	108.6	113.8	119.8	122.5	121.7	136.8
1.25	100.4	102.1	103.1	103.6	104.7	106.7	109.3	113.6	119.0	122.6	121.0	136.6
1.60	100.3	101.6	102.7	103.4	104.3	106.6	109.2	113.5	118.0	122.1	120.5	136.0
2.00	100.2	100.5	102.3	103.5	104.4	106.6	109.3	112.8	116.8	120.6	118.6	134.7
2.50	99.4	100.2	101.7	102.8	104.2	106.7	109.7	112.7	115.6	119.4	117.4	133.9
3.15	99.1	100.0	101.6	102.9	104.3	106.9	109.8	112.2	114.5	117.8	114.8	132.8
4.00	98.6	99.3	100.9	102.5	104.1	106.6	109.2	111.3	113.2	115.3	112.6	131.4
5.00	97.4	98.2	100.2	101.7	103.2	106.1	108.7	109.9	111.3	113.2	110.1	129.9
6.30	96.7	97.5	99.5	101.3	102.9	105.7	108.1	108.9	110.1	111.4	108.3	128.8
8.00	94.9	96.6	98.6	100.5	102.2	105.0	107.1	107.4	108.5	109.4	106.1	127.5
10.0	93.7	95.8	97.9	99.9	101.6	104.2	106.1	106.1	107.2	107.9	104.7	126.3
12.5	92.9	94.4	96.9	98.7	100.4	103.2	104.6	104.4	105.2	106.3	103.1	124.8
16.0	91.5	93.6	96.1	97.9	99.7	102.4	103.6	103.1	103.8	104.9	102.0	123.7
20.0	89.9	92.2	94.6	96.5	98.4	100.5	102.1	101.3	102.2	103.3	100.2	122.1
25.0	89.1	91.0	93.6	96.0	97.5	100.1	100.5	100.2	100.9	102.4	99.7	121.2
31.5	88.4	90.7	93.4	95.2	97.1	99.1	100.1	99.6	100.5	101.5	98.6	120.5
40.0	88.8	91.3	93.8	96.0	97.1	99.7	99.9	100.2	100.8	102.2	99.2	120.9
50.0	89.0	91.4	94.0	96.0	97.5	99.8	100.8	100.4	101.3	102.5	99.9	121.3
63.0	89.4	91.5	94.2	96.3	98.0	100.0	101.0	100.7	102.8	103.0	100.1	121.8
80.0	90.5	92.5	95.7	97.2	99.2	100.6	102.0	101.7	106.9	104.9	102.3	123.7
100.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

OAPWL = 146.0

OSPL	111.2	111.9	113.6	114.7	115.9	118.2	120.6	123.7	128.2	131.6	130.7

STAND X206 RIG ID 070530 TEST DATE 03/11/77 SCALE RATIO 12.0/1 RUN NUMBER 2008 CONDITION 6612

					PRIMARY	FAN			PRIMARY	FAN				PRIMARY	FAN			PRIMARY	FAN
TEMP	77.0(F)	25.0(C)	AREA	SQFT	8.640	11.520	SQM	0.803	1.070	MASS FLOW	LB/S	465.1	522.7	KG/S	211.0	237.1
PRES	30.24IN	1.02BAR	P-R-		2.00	1.79		2.00	1.79	THRUST,IDL	LB	25756.9	21084.4	KN	114.572	138.269
WIND D			TEMP	(K)	1457.7	1972.7	(K)	809.8	1095.9	THRUST,MEA	LB		0.0	KN	0.0	
WIND V	0MPH	0.0M/S	RHO	LB/FT3	0.033	0.023	KG/M3	0.524	0.373	AREA (MOD)	SQFT	0.060	0.080	SQM	0.006	0.007
REL H	70.0%		VEL	FPS	1783.1	1914.8	M/S	543.5	583.6	W (MODEL)	LB/S	3.2	3.6	KG/S	1.5	1.6

FAA DAY 1/3 OCTAVE BAND ENGINE JET NOISE DATA 150.0FT RADIUS (SCALED ENGINE)

BAND CENTER FREQ (KHZ)	MICROPHONE ANGLES IN DEGREES 60	70	80	90	100	110	120	130	140	150	160	POWER 1E-12W
.050	100.4	100.4	101.7	102.5	103.0	105.0	108.0	113.5	119.6	123.2	122.2	156.5
.063	100.8	101.7	103.1	103.9	104.7	105.8	108.5	114.3	120.4	124.1	122.3	159.3
.080	102.4	102.0	103.4	104.0	105.4	107.9	110.2	115.4	121.4	124.1	122.3	159.9
.100	102.0	103.7	104.7	105.2	106.3	108.3	110.9	115.2	120.6	124.2	122.6	159.7
.125	101.9	103.2	104.3	105.0	105.9	108.2	110.6	115.1	119.6	123.7	121.9	159.1
.160	101.7	102.6	103.8	105.0	105.9	108.1	110.8	114.3	118.3	122.1	120.1	157.8
.200	100.9	101.7	103.2	104.3	105.7	108.2	111.2	114.2	117.1	120.9	118.9	157.6
.250	100.6	101.5	103.1	104.4	105.8	108.4	111.3	113.7	116.0	119.3	116.3	155.4
.315	99.5	100.8	102.4	104.0	105.6	108.1	110.7	112.8	114.7	116.8	114.3	154.5
.400	98.9	99.7	101.7	103.2	104.7	107.6	110.2	111.4	112.8	114.7	111.6	153.6
.500	98.1	98.9	100.9	102.7	104.3	107.1	109.5	110.3	111.5	112.8	109.7	151.6
.630	98.3	98.0	100.0	101.9	103.6	106.4	108.5	108.8	109.9	110.8	107.5	150.5
.800	95.1	97.2	99.3	101.3	103.0	105.6	107.5	107.5	108.6	109.3	106.1	149.3
1.00	94.2	95.7	98.2	100.0	101.7	104.3	105.9	105.7	106.5	107.6	104.4	147.7
1.25	92.7	94.8	97.3	99.1	100.9	103.6	104.8	104.3	105.0	106.1	103.2	146.6
1.60	91.0	93.3	95.7	97.6	99.5	101.6	103.2	102.4	103.3	104.4	101.3	144.9
2.00	90.2	92.1	94.7	97.1	98.6	101.2	101.6	101.3	102.0	103.5	100.8	143.8
2.50	89.3	91.6	94.3	96.1	98.0	100.0	101.0	100.5	101.4	102.4	99.5	143.0
3.15	89.5	92.0	94.5	96.7	97.8	100.4	100.6	100.9	101.5	102.9	99.9	143.2
4.00	89.5	91.9	94.5	96.5	98.0	100.3	101.3	100.9	101.8	103.0	100.4	143.3
5.00	89.7	91.8	94.5	96.6	98.3	100.3	101.3	101.0	103.1	103.3	100.4	143.7
6.30	90.5	92.5	95.7	97.2	99.2	100.6	102.0	101.7	106.9	104.9	102.3	145.2
8.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

OAPWL = 166.4

OSPL	111.8	112.8	114.4	115.6	116.9	119.3	121.7	124.8	129.1	132.4	130.7	
PNL	118.1	119.9	122.1	123.9	125.3	127.7	129.2	130.2	133.0	135.1	132.8	

200. SIDELINE

PNL	114.1	116.6	119.3	121.2	122.5	124.4	125.2	125.2	126.0	126.2	120.3	

370. SIDELINE

PNL	108.1	110.7	113.3	115.2	116.5	118.4	119.1	119.4	120.2	120.3	114.3	

800. SIDELINE

PNL	100.3	102.5	105.1	107.0	108.2	110.1	111.3	111.6	112.4	112.5	106.2	

2128. SIDELINE

PNL	89.2	91.5	93.9	95.6	96.9	98.9	100.2	100.7	101.5	101.6	95.1	

5.1E-24

STAND X206 RIG ID 070530 TEST DATE 03/11/77 SCALE RATIO 12.0/1 RUN NUMBER 20086 CONDITION 8613

					PRIMARY	FAN		PRIMARY	FAN			PRIMARY	FAN		PRIMARY	FAN
TEMP	95°F	35°C	AREA	SQFT	0.0	0.0	SQM	0.0	0.0	MASS FLOW	LB/S	0.0	0.0	KG/S	0.0	0.0
PRES	30.24IN	1.02BAR	P.R.		2.00	2.49		2.00	2.49	THRUST,IDL	LB	178.7	377.6	KN	0.795	1.680
WIND D			TEMP	(R)	1451.7	1571.7	(K)	806.5	1095.4	THRUST,MEA	LB		0.0	KN	0.0	
WIND V		OMPH 0.0M/S	RHO	LB/FT3	0.033	0.025	KG/M3	0.527	0.405	AREA (MOD)	SQFT	0.060	0.080	SQM	0.006	0.007
REL H	17 %		VEL	FPS	1781.3	2352.0	M/S	543.0	716.9	W (MODEL)	LB/S	3.2	5.2	KG/S	1.5	2.4

1/3 OCTAVE BAND MODEL JET NOISE DATA 15.0FT RADIUS THEORETICAL DAY SPL - (MODEL)

BAND CENTER FREQ (KHZ)	MICROPHONE ANGLES IN DEGREES 60	70	80	90	100	110	120	130	140	150	160	POWER 1E-12W
.050	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
.063	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
.080	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
.100	90.0	93.2	93.1	95.0	94.4	95.8	97.3	99.4	101.2	105.7	110.0	0.6
.125	90.7	94.0	95.9	95.9	97.1	96.6	96.5	100.7	103.8	107.2	110.9	122.2
.160	96.6	96.4	96.7	96.6	96.1	96.3	96.9	98.7	104.4	109.3	113.2	123.3
.200	95.0	93.8	94.4	95.6	96.4	97.4	99.4	102.1	108.5	113.2	115.8	124.8
.250	96.2	95.8	97.0	97.7	99.2	100.1	101.9	105.1	111.1	116.1	118.7	127.0
.315	96.7	95.8	101.7	99.6	100.4	101.6	103.7	108.3	112.5	118.3	121.3	130.9
.400	100.4	99.8	101.2	100.5	102.5	104.6	107.4	111.2	116.8	121.3	124.4	132.6
.500	102.2	100.2	101.3	102.5	103.0	104.6	107.8	112.5	119.6	124.0	123.1	135.8
.630	102.1	101.9	103.2	104.1	104.6	106.2	109.6	115.3	121.1	124.8	123.8	137.4
.800	102.3	103.1	104.5	105.2	105.9	107.1	110.2	116.1	121.9	125.6	124.0	138.6
1.00	104.0	103.9	104.8	105.5	106.9	109.3	111.8	117.0	122.5	125.9	125.1	139.3
1.25	102.7	105.1	106.0	106.6	107.8	109.6	112.7	116.8	121.8	125.9	124.4	139.9
1.60	103.7	105.1	106.0	106.8	107.8	109.7	112.9	116.9	121.3	126.4	124.2	139.7
2.00	103.8	104.0	105.6	106.6	107.8	109.9	113.4	116.6	121.1	125.7	122.5	139.9
2.50	103.2	103.9	105.3	106.5	107.9	110.5	114.2	117.0	121.6	125.3	121.2	139.2
3.15	103.0	103.8	105.3	106.5	108.2	110.9	114.7	116.8	122.0	124.0	118.8	139.1
4.00	102.2	103.4	105.0	106.4	108.3	111.1	114.6	116.7	122.3	121.5	116.4	138.6
5.00	101.8	102.7	104.5	106.0	108.0	111.0	114.5	116.3	121.6	119.6	114.2	137.9
6.30	101.6	102.4	104.4	106.1	108.1	111.0	114.2	116.3	120.5	118.2	112.8	137.0
8.00	100.2	102.0	104.0	105.7	107.7	110.7	113.7	115.9	118.8	116.6	111.0	136.2
10.0	98.9	101.3	103.6	105.4	107.4	110.4	113.0	115.1	117.6	115.6	110.0	135.2
12.5	98.3	100.0	102.6	104.7	106.6	109.8	112.0	114.0	116.3	114.2	108.8	134.3
16.0	97.4	99.7	102.3	104.1	106.4	109.2	111.4	113.0	115.3	113.1	107.9	133.2
20.0	96.0	98.4	101.0	102.9	105.2	107.8	110.2	111.6	114.1	111.9	106.6	132.3
25.0	95.3	97.4	100.4	102.7	104.7	107.5	108.9	110.7	113.3	111.5	106.3	131.1
31.5	94.9	97.4	100.2	102.2	104.4	106.8	109.2	110.6	113.5	111.1	105.7	130.4
40.0	95.5	98.1	100.9	103.2	104.7	106.0	109.3	111.2	114.2	112.4	106.8	130.2
50.0	95.8	98.2	100.9	103.3	105.1	108.2	110.4	112.1	114.9	113.1	107.5	130.9
63.0	96.1	98.5	101.5	103.7	105.7	108.6	111.0	113.1	116.0	114.1	108.2	131.7
80.0	97.4	99.5	103.1	104.7	107.1	109.7	112.6	115.0	119.2	116.5	110.5	132.6
100.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	134.8
												0.0
OSPL	115.1	116.0	117.7	118.9	120.6	123.1	126.0	128.9	133.5	136.0	134.3	OAPWL = 150.7

5.1E-25

STAND X206 RIG ID 070530 TEST DATE 03/11/77 SCALE RATIO 12.0/1 RUN NUMBER 2008 CONDITION 8613

			PRIMARY	FAN		PRIMARY	FAN		PRIMARY	FAN		PRIMARY	FAN
TEMP	77.0(F) 25.0(C)	AREA SQFT	8.640	11.520	SQM	0.803	1.070	MASS FLOW LB/S	465.1	744.5	KG/S	211.0	337.7
PRES	30.24IN 1.02BAR	P.R.	2.00	2.49		2.00	2.49	THRUST,IDL LB	25730.9	54378.3	KN	114.456	241.886
WIND D		TEMP (R)	1451.7	1971.7	(K)	806.5	1095.4	THRUST,MEA LB		0.0	KN	0.0	
WIND V	0MPH 0.0M/S	RHO LB/FT3	0.033	0.025	KG/M3	0.527	0.405	AREA (MOD) SQFT	0.060	0.080	SQM	0.006	0.007
REL H	70.0%	VEL FPS	1781.3	2352.0	M/S	543.0	716.9	W (MODEL) LB/S	3.2	5.2	KG/S	1.5	2.3

FAA DAY

1/3 OCTAVE BAND ENGINE JET NOISE DATA 150.0FT RADIUS (SCALED ENGINE)

BAND CENTER FREQ (KHZ)	MICROPHONE ANGLES IN DEGREES 60	70	80	90	100	110	120	130	140	150	160	POWER 1E-12W
.050	103.7	103.5	104.8	105.7	106.2	107.8	111.2	116.9	122.7	126.4	125.4	
.063	103.9	104.7	106.1	106.8	107.5	108.7	111.8	117.7	123.5	127.2	125.6	161.7
.080	105.6	105.5	106.4	107.1	108.5	110.9	113.4	118.6	124.1	127.5	126.7	162.5
.100	106.3	106.7	107.6	108.2	109.4	111.2	114.3	118.4	123.4	127.5	126.0	163.1
.125	105.3	106.7	107.6	108.4	109.4	111.3	114.5	118.5	122.9	128.0	125.8	162.9
.160	105.3	105.5	107.1	108.1	109.3	111.4	114.9	118.1	122.6	127.2	124.0	163.0
.200	104.7	105.4	106.8	108.0	109.4	112.0	115.7	118.5	123.1	126.8	122.7	162.3
.250	104.5	105.3	106.8	108.0	109.7	112.4	116.2	118.3	123.5	125.5	120.3	162.3
.315	103.7	104.9	106.5	107.9	109.8	112.6	116.1	118.2	123.8	125.0	117.9	161.7
.400	103.3	104.2	106.0	107.5	109.5	112.5	116.0	117.8	123.1	121.1	115.7	161.0
.500	102.0	103.8	105.8	107.5	109.5	112.4	115.6	117.7	121.9	119.6	114.2	160.1
.630	101.6	103.4	105.4	107.1	109.1	112.1	115.1	117.3	120.2	118.0	112.4	159.2
.800	100.3	102.7	105.0	106.8	108.8	111.8	114.4	116.5	119.0	117.0	111.4	158.2
1.00	99.6	101.3	103.9	106.0	107.9	111.1	113.3	115.3	117.6	115.5	110.1	157.2
1.25	98.6	100.9	103.5	105.3	107.6	110.4	112.6	114.2	116.5	114.3	109.1	156.1
1.60	97.1	99.5	102.1	104.0	106.3	108.9	111.3	112.7	115.2	113.0	107.7	155.2
2.00	96.4	98.5	101.5	103.8	105.8	108.6	110.0	111.8	114.4	112.6	107.4	153.8
2.50	95.8	98.3	101.1	103.1	105.3	107.7	110.1	111.5	114.4	112.0	106.6	153.0
3.15	96.2	98.8	101.6	103.9	105.4	108.7	110.0	111.9	114.9	113.1	107.5	152.7
4.00	95.3	98.7	101.4	103.8	105.6	108.7	110.9	112.6	115.4	113.6	108.0	153.2
5.00	96.4	98.8	101.8	104.0	106.0	108.9	111.3	113.4	116.3	114.4	108.5	153.7
6.30	97.4	99.5	103.1	104.7	107.1	109.7	112.6	115.0	119.2	116.5	110.5	154.4
8.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	156.4
10.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

5.1E-26

OAPWL = 173.2

OSPL	115.8	116.9	118.6	119.9	121.6	124.2	127.2	130.0	134.6	136.8	134.3	
PNL	123.7	125.6	128.0	129.8	131.6	134.5	137.0	139.2	143.1	142.2	137.6	

200. SIDELINE

PNL	119.6	122.3	125.1	127.1	128.8	131.2	132.9	133.8	135.9	132.9	125.0	

370. SIDELINE

PNL	113.6	116.3	119.1	121.1	122.7	125.1	126.7	127.5	129.3	126.9	118.8	

800. SIDELINE

PNL	105.2	107.9	110.8	112.8	114.3	116.6	118.0	118.8	121.0	118.8	110.5	

2128. SIDELINE

PNL	93.8	96.2	98.7	100.5	102.1	104.3	106.3	107.1	109.3	107.4	99.1	

STAND X206 RIG ID 070530 TEST DATE 03/11/77 SCALE RATIO 12.0/1 RUN NUMBER 20086 CONDITION 8614

					PRIMARY	FAN		PRIMARY	FAN			PRIMARY	FAN		PRIMARY	FAN
TEMP	96°F	35.6°C	AREA	SQFT	0.0	0.0	SQM	0.0	0.0	MASS FLOW	LB/S	0.0	0.0	KG/S	0.0	0.0
PRES	30.24IN	1.02BAR	P.R.		2.00	4.09		2.00	4.09	THRUST,IDL	LB	176.2	758.7	KN	0.784	3.375
WIND D			TEMP	(R)	1459.7	1955.7	(K)	810.9	1086.5	THRUST,MEA	LB		0.0	KN	0.0	
WIND V	0MPH	0.0M/S	RHO	LB/FT3	0.033	0.025	KG/M3	0.524	0.460	AREA (MOD)	SQFT	0.060	0.080	SQM	0.006	0.007
REL H	18 %		VEL	FPS	1784.2	2331.0	M/S	543.8	862.9	W (MODEL)	LB/S	3.2	6.6	KG/S	1.4	3.0

1/3 OCTAVE BAND MODEL JET NOISE DATA 15.0FT RADIUS THEORETICAL DAY SPL - (MODEL)

BAND CENTER FREQ (KHZ)	MICROPHONE ANGLES IN DEGREES 60	70	80	90	100	110	120	130	140	150	160	POWER 1E-12W
.050	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
.063	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
.080	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
.100	95.1	98.5	102.5	99.6	99.0	106.8	102.2	103.9	106.0	110.8	115.7	127.3
.125	97.0	100.1	101.5	101.2	102.3	101.5	101.6	105.1	108.4	112.0	116.3	128.4
.160	102.4	104.3	102.6	102.6	101.4	101.3	102.1	103.6	109.2	113.8	118.6	129.8
.200	100.9	99.8	100.5	101.2	102.0	103.1	104.9	107.3	113.3	118.4	121.3	132.9
.250	103.0	101.9	103.1	103.3	104.6	105.9	107.4	110.1	115.5	120.9	124.0	135.4
.315	101.6	101.2	107.4	105.3	106.2	107.4	108.6	113.3	117.3	123.2	126.9	137.3
.400	105.9	104.9	106.2	105.6	107.6	109.7	111.9	115.9	121.6	126.1	129.6	140.8
.500	106.4	105.1	106.4	107.1	107.6	109.6	112.7	117.3	124.8	129.2	128.2	142.6
.630	106.7	106.4	107.8	108.7	109.1	110.7	114.0	119.9	126.3	130.0	129.0	143.7
.800	107.2	107.4	109.3	109.9	110.6	111.6	114.5	121.0	127.4	131.3	129.1	144.8
1.00	107.5	107.6	108.9	109.3	111.2	113.2	116.3	121.8	128.3	131.3	129.2	145.1
1.25	107.8	108.1	109.3	109.7	111.5	113.8	117.3	122.0	128.2	131.4	127.3	145.1
1.60	106.5	107.7	108.9	109.8	111.3	113.8	117.7	122.4	128.8	131.3	125.4	145.1
2.00	106.9	107.2	109.0	109.9	111.4	114.1	118.6	122.4	129.5	129.1	122.3	144.4
2.50	108.1	108.5	109.5	110.3	112.0	115.1	119.6	123.4	129.9	126.8	120.9	144.2
3.15	108.2	109.3	110.6	111.1	112.6	115.7	120.3	124.3	129.3	125.2	118.8	143.9
4.00	107.9	109.2	110.7	111.7	113.3	116.1	120.8	125.0	127.2	123.2	117.1	142.9
5.00	107.3	108.6	110.4	111.8	113.5	116.3	120.8	125.0	125.5	121.6	114.9	142.2
6.30	107.6	108.4	110.4	111.9	113.7	116.8	120.7	124.5	124.5	120.0	113.3	141.6
8.00	107.4	108.7	110.3	111.6	113.6	116.7	120.3	123.1	123.2	118.7	111.7	140.6
10.0	106.9	108.9	110.5	111.6	113.5	116.4	119.4	121.9	122.0	117.4	110.6	139.7
12.5	107.0	108.5	110.5	111.5	113.0	115.9	118.4	120.9	120.9	116.2	109.5	138.8
16.0	106.4	108.6	110.7	111.5	112.9	115.5	117.8	120.1	120.1	115.2	108.6	138.2
20.0	105.2	107.6	109.9	110.7	112.0	114.0	116.8	118.7	118.9	113.9	107.4	137.0
25.0	104.7	106.9	109.5	111.0	112.0	114.2	115.8	118.1	118.1	113.6	107.3	136.6
31.5	104.3	106.8	109.5	110.6	111.8	113.6	115.9	118.1	118.0	113.1	106.5	136.3
40.0	104.8	107.4	110.2	111.6	112.4	114.8	116.4	119.0	118.8	114.1	107.5	137.2
50.0	105.4	108.2	110.7	112.3	113.4	115.8	117.9	120.0	119.6	115.2	108.7	138.2
63.0	106.1	108.5	111.7	113.1	114.7	116.7	119.1	121.3	120.7	116.2	109.8	139.4
80.0	107.8	110.1	113.8	114.7	116.7	118.5	121.3	123.6	124.2	118.7	112.2	141.8
100.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
OSPL	120.9	122.1	124.1	125.0	126.5	128.9	132.2	135.8	139.5	140.3	138.1	OAPWL = 156.1

5.1E-27

STAND X206 RIG ID 070530 TEST DATE 03/11/77 SCALE RATIO 12.0/1 RUN NUMBER 2008 CONDITION 8614

				PRIMARY	FAN		PRIMARY	FAN
TEMP	77.0(F)	25.0(C)	AREA SQFT	8.640	11.520	SQM	0.803	1.070
PRES	30.24IN	1.02BAR	P.R.	2.66	4.09		2.66	4.09
WIND D			TEMP (R)	1459.7	1955.7	(K)	810.9	1086.5
WIND V	0MPH	0.0M/S	RHO LB/FT3	0.033	0.029	KG/M3	0.524	0.460
REL H	70.0%		VEL FPS	1784.2	2831.0	M/S	543.8	862.9

			PRIMARY	FAN		PRIMARY	FAN
MASS FLOW	LB/S	457.9	1242.7	KG/S	207.7		563.7
THRUST,IDL	LB	25373.1	109257.9	KN	112.865		486.001
THRUST,MEA	LB		0.0	KN	0.0		
AREA (MOD)	SQFT	0.060	0.080	SQM	0.006		0.007
W (MODEL)	LB/S	3.2	8.4	KG/S	1.4		3.8

FAA DAY

1/3 OCTAVE BAND ENGINE JET NOISE DATA 150.0FT RADIUS (SCALED ENGINE)

BAND CENTER FREQ (KHZ) — MICROPHONE ANGLES IN DEGREES

	60	70	80	90	100	110	120	130	140	150	160	POWER 1E-12W
.050	108.3	108.0	109.8	110.3	110.7	112.3	115.6	121.5	127.9	131.6	130.6	
.063	108.3	109.0	110.9	111.5	112.2	113.2	116.1	122.6	129.0	132.9	130.7	166.8
.080	109.1	109.2	110.5	110.9	112.8	114.8	117.9	123.4	129.9	132.9	130.8	167.9
.100	109.4	109.7	110.9	111.3	113.1	115.4	118.9	123.6	129.8	133.0	128.9	168.3
.125	109.1	109.3	110.5	111.4	112.9	115.4	119.3	124.0	130.4	132.9	127.0	168.2
.160	108.4	108.7	110.5	111.4	112.9	115.6	120.1	125.9	131.0	130.6	123.8	168.3
.200	109.6	110.0	111.0	111.8	113.5	116.6	121.1	124.9	131.4	128.3	122.4	167.5
.250	109.7	110.8	112.1	112.6	114.1	117.2	121.8	125.8	130.8	126.7	120.3	167.3
.315	109.4	110.7	112.2	113.2	114.8	117.6	122.3	126.5	128.7	124.7	116.6	167.0
.400	108.8	110.1	111.9	113.3	114.8	117.8	122.3	126.5	127.0	123.1	116.4	166.6
.500	109.6	109.8	111.8	113.3	115.1	118.2	122.1	125.9	125.9	121.4	114.7	165.3
.630	108.8	110.1	111.7	113.0	115.6	118.1	121.7	124.5	124.6	120.1	113.1	164.5
.800	108.3	110.3	111.9	113.0	114.9	117.8	120.6	123.3	123.4	118.8	112.0	163.6
1.00	108.3	109.8	111.8	112.8	114.3	117.2	119.7	122.2	122.2	117.5	110.8	162.6
1.25	107.6	109.8	111.9	112.7	114.1	116.7	119.0	121.3	121.3	116.4	109.8	161.7
1.60	105.3	108.7	111.0	111.9	113.1	115.1	117.9	119.8	120.0	115.0	108.5	161.0
2.00	105.8	108.0	110.6	112.1	113.1	115.3	116.9	119.2	119.2	114.7	108.4	159.7
2.50	105.2	107.7	110.4	111.5	112.7	114.5	116.8	119.0	118.9	114.0	107.4	159.2
3.15	105.5	108.1	110.9	112.3	113.1	115.5	117.1	119.7	119.5	114.8	108.2	159.8
4.00	105.9	108.7	111.2	112.8	113.9	116.3	118.4	120.5	120.1	115.7	109.2	159.4
5.00	106.4	108.8	112.0	113.4	115.0	117.0	119.4	121.6	121.0	116.5	110.1	160.2
6.30	107.8	110.1	113.8	114.7	116.7	118.5	121.3	123.6	124.2	118.7	112.2	161.2
8.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	163.3
10.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
												0.0

5.1E-28

OASPL = 176.6

OSPL	121.6	122.9	124.8	125.9	127.4	129.9	133.3	136.9	140.6	141.1	137.5	
PNL	131.7	133.8	136.3	137.4	139.0	141.2	144.1	146.9	148.3	144.8	139.2	

200. SIDELINE

PNL	127.6	130.5	133.4	134.6	136.0	137.8	139.9	141.5	141.2	135.7	126.6	

370. SIDELINE

PNL	121.4	124.3	127.1	128.5	129.6	131.6	133.4	134.9	134.6	129.7	120.5	

800. SIDELINE

PNL	112.8	115.7	118.6	119.9	121.0	122.9	124.6	126.3	126.6	121.7	112.3	

2128. SIDELINE

PNL	100.3	102.8	105.5	106.9	108.0	110.0	112.5	114.6	115.2	110.6	101.2	

STAND X206 RIG ID 070530 TEST DATE 03/11/77 SCALE RATIO 12.0/1 RUN NUMBER 20086 CONDITION 8626

			PRIMARY	FAN		PRIMARY	FAN			PRIMARY	FAN		PRIMARY	FAN
TEMP 93°F 33.9°C	AREA	SQFT	0.0	0.0	SQM	0.0	0.0	MASS FLOW	LB/S	0.0	0.0	KG/S	0.0	0.0
PRES 30.24IN 1.02BAR	P.R.		1.31	1.00		1.31	1.00	THRUST,IDL	LB	62.6	0.0	KN	0.279	0.000
WIND D	TEMP	(R)	1251.7	1003.7	(K)	695.4	557.6	THRUST,MEA	LB		0.0	KN	0.0	
WIND V 0MPH 0.0M/S	RHO	LB/FT3	0.034	0.040	KG/M3	0.550	0.639	AREA (NOD)	SQFT	0.060	0.080	SQM	0.006	0.007
REL H 16 90	VEL	FPS	1061.6	104.0	M/S	323.6	32.5	W (MODEL)	LB/S	1.9	0.2	KG/S	0.9	0.1

1/3 OCTAVE BAND MODEL JET NOISE DATA 15.0FT RADIUS THEORETICAL DAY SPL - (MODEL)

BAND CENTER FREQ (KHZ)	MICROPHONE ANGLES IN DEGREES 60	70	80	90	100	110	120	130	140	150	160	POWER 1E-12W
.050	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
.063	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
.080	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
.100	64.7	66.9	70.0	71.0	70.8	71.6	73.9	76.0	77.4	79.9	83.1	97.6
.125	66.5	70.3	71.5	70.3	71.5	72.2	72.5	76.6	79.5	81.2	82.0	97.9
.160	67.8	71.6	71.7	71.4	69.9	71.3	72.4	74.6	79.4	82.8	85.1	98.4
.200	68.1	69.3	70.8	71.8	72.7	73.6	75.8	78.1	83.3	86.7	87.7	101.5
.250	70.4	72.4	73.7	74.7	75.1	76.2	78.2	81.0	85.6	89.1	90.7	104.1
.315	73.0	74.3	76.1	76.2	76.7	77.9	80.1	83.8	87.1	90.9	92.4	106.2
.400	75.5	75.7	79.1	78.8	79.8	81.1	83.3	86.6	90.4	94.2	96.7	109.3
.500	78.3	77.5	79.2	80.3	80.5	82.0	84.5	87.8	92.8	96.1	96.6	110.7
.630	78.6	78.9	80.6	81.1	81.9	83.7	86.1	89.3	93.6	97.1	97.9	111.6
.800	79.2	80.4	81.3	82.3	82.8	84.3	86.3	90.2	94.1	97.4	97.6	112.2
1.00	79.0	79.6	81.2	82.3	83.5	85.3	87.3	90.5	93.9	95.8	95.2	111.5
1.25	78.5	80.1	81.7	82.5	83.6	85.6	87.6	90.2	93.1	94.2	91.9	110.6
1.60	78.4	80.6	81.8	82.5	83.9	85.7	87.8	90.5	92.6	92.7	90.0	110.2
2.00	78.1	79.7	81.7	82.7	84.0	85.9	87.9	90.2	91.9	90.3	87.5	109.4
2.50	78.3	80.0	81.7	82.8	84.2	86.1	88.1	90.0	90.6	88.7	86.1	109.0
3.15	78.1	79.9	81.5	82.7	83.9	85.9	87.9	89.2	89.4	87.2	84.0	108.3
4.00	78.1	79.4	81.0	82.3	83.5	85.1	87.0	88.1	87.7	85.1	82.1	107.3
5.00	78.1	78.6	80.3	81.5	82.5	84.4	86.4	87.0	86.0	83.3	80.1	106.3
6.30	77.5	78.0	79.7	80.8	81.8	83.7	85.4	85.7	84.7	81.9	78.6	105.2
8.00	75.8	77.3	79.0	80.0	80.9	82.8	84.4	84.5	83.5	80.7	77.6	104.3
10.0	74.4	76.4	78.0	79.3	80.1	82.0	83.4	83.1	82.3	80.1	77.0	103.5
12.5	74.5	75.2	77.2	78.3	79.1	81.0	82.3	81.9	81.1	79.3	76.1	102.2
16.0	73.5	74.6	76.7	77.6	78.6	80.3	81.5	81.0	80.3	78.4	75.5	101.5
20.0	72.1	73.5	75.4	76.4	77.3	78.7	80.2	79.5	79.2	77.0	74.3	100.1
25.0	71.9	72.7	74.8	76.3	77.0	78.7	79.2	79.0	78.3	76.5	73.9	99.7
31.5	71.4	73.0	75.1	76.0	77.0	78.2	79.3	79.0	78.3	76.0	73.0	99.5
40.0	72.0	73.6	75.6	77.0	77.3	79.3	79.3	79.6	78.7	76.6	73.7	100.1
50.0	72.5	73.8	75.9	77.0	77.7	79.5	80.5	80.0	79.4	76.9	74.0	100.6
63.0	72.7	73.9	76.4	77.7	78.5	79.9	80.7	80.5	80.7	77.4	74.2	101.2
80.0	73.6	74.7	77.8	78.5	79.7	80.[illegible]	81.8	81.5	84.0	79.0	76.0	102.6
100.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
OSPL	90.6	91.7	93.6	94.5	95.5	97.2	99.0	101.0	103.4	105.1	105.3	OAPWL = 121.8

5.1E-29

STAND X206 RIG ID 070530 TEST DATE 03/11/77 SCALE RATIO 12.0/1 RUN NUMBER 2008 CONDITION 8626

				PRIMARY	FAN		PRIMARY	FAN			PRIMARY	FAN		PRIMARY	FAN
TEMP	77.0(F)	25.0(C)	AREA SQFT	8.640	11.520	SQM	0.803	1.070	MASS FLOW	LB/S	273.6	25.9	KG/S	124.1	11.8
PRES	30.24IN	1.02BAR	P.R.	1.31	1.00		1.31	1.00	THRUST,IDL	LB	9020.3	85.8	KN	40.124	0.382
WIND D			TEMP (R)	1251.7	1003.7	(K)	695.4	557.6	THRUST,MEA	LB		0.0	KN	0.0	
WIND V	0MPH	0.0M/S	RHO LB/FT3	0.034	0.040	KG/M3	0.550	0.639	AREA (MOD)	SQFT	0.060	0.080	SQM	0.006	0.007
RLL H	70.0%		VEL FPS	1661.6	1330.5	M/S	323.6	32.5	W (MODEL)	LB/S	1.9	0.2	KG/S	0.9	0.1

FAA DAY

1/3 OCTAVE BAND ENGINE JET NOISE DATA 150.0FT RADIUS (SCALED ENGINE)

BAND CENTER FREQ (KHZ) — MICROPHONE ANGLES IN DEGREES

	60	70	80	90	100	110	120	130	140	150	160	POWER 1E-12W
.050	80.2	80.5	82.2	82.7	83.5	85.3	87.7	90.9	95.2	98.7	99.5	
.063	80.8	82.0	82.9	83.9	84.4	85.9	87.9	91.8	95.7	99.0	99.2	135.0
.080	80.6	81.2	82.8	83.9	85.1	86.9	88.9	92.1	95.5	97.4	96.8	135.4
.100	80.1	81.7	83.3	84.1	85.2	87.2	89.2	91.8	94.7	95.8	93.5	134.6
.125	80.0	81.6	83.4	84.1	85.5	87.3	89.4	92.1	94.2	94.3	91.6	133.8
.160	79.6	81.2	83.2	84.2	85.5	87.4	89.4	91.7	93.4	91.8	89.0	133.3
.200	79.8	81.5	83.2	84.3	85.7	87.6	89.6	91.5	92.1	90.2	87.6	132.6
.250	79.6	81.4	83.0	84.2	85.4	87.4	89.4	90.7	90.9	88.7	85.5	132.1
.315	79.6	80.9	82.5	83.8	85.0	86.6	88.5	89.6	89.2	86.6	83.6	131.4
.400	79.6	80.1	81.8	83.0	84.0	85.9	87.9	88.5	87.5	84.8	81.6	130.4
.500	78.9	79.4	81.1	82.2	83.2	85.1	86.8	87.1	86.1	83.3	80.0	129.3
.630	77.2	78.7	80.4	81.4	82.3	84.2	85.8	85.9	84.9	82.1	79.0	128.3
.800	75.8	77.8	79.4	80.7	81.5	83.4	84.8	84.5	83.7	81.5	78.4	127.3
1.00	75.8	76.5	78.5	79.6	80.4	82.3	83.6	83.2	82.4	80.6	77.4	126.2
1.25	74.7	75.8	77.9	78.8	79.8	81.5	82.7	82.2	81.5	79.6	76.7	125.1
1.60	73.2	74.6	76.5	77.5	78.4	79.8	81.3	80.6	80.3	78.1	75.4	124.3
2.00	73.0	73.8	75.9	77.4	78.1	79.8	80.3	80.1	79.4	77.6	75.0	122.9
2.50	72.3	73.9	76.0	76.9	77.9	79.1	80.2	79.9	79.2	76.9	73.9	122.3
3.15	72.7	74.3	76.3	77.7	78.0	80.0	80.0	80.3	79.4	77.3	74.4	122.6
4.00	73.0	74.3	76.4	77.5	78.2	80.0	81.0	80.5	79.9	77.4	74.5	122.4
5.00	73.0	74.2	76.7	78.0	78.8	80.2	81.0	80.8	81.0	77.7	74.5	122.6
6.30	73.6	74.7	77.8	78.5	79.7	80.7	81.8	81.5	84.0	79.0	76.0	123.0
8.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	124.1
10.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
												0.0

CAPWL = 143.9

OSPL	91.4	92.6	94.3	95.3	96.4	98.2	100.0	101.9	103.9	105.1	104.5
PNL	99.8	101.1	103.1	104.2	105.1	106.8	108.1	108.5	109.3	107.2	105.2

200. SIDELINE

PNL	95.6	97.7	100.2	101.5	102.2	103.5	104.0	103.2	102.1	98.2	92.6

370. SIDELINE

PNL	89.3	91.5	94.0	95.4	96.0	97.4	97.7	97.0	95.7	92.1	85.7

800. SIDELINE

PNL	80.6	82.9	85.5	86.9	87.5	88.8	89.2	88.8	87.4	83.4	76.3

2128. SIDELINE

PNL	68.6	70.9	73.4	74.8	75.6	76.9	77.6	77.0	75.4	70.8	63.3

5.1E-30

STAND X206 RIG ID 070530 TEST DATE 03/11/77 SCALE RATIO 12.0/1 RUN NUMBER 20086 CONDITION 8627

					PRIMARY	FAN		PRIMARY	FAN			PRIMARY	FAN		PRIMARY	FAN
TEMP	93°F	33.9°C	AREA	SQFT	0.0	0.0	SQM	0.0	0.0	MASS FLOW	LB/S	0.0	0.0	KG/S	0.0	0.0
PRES	30.241N	1.02BAR	P.R.		1.80	1.00		1.80	1.00	THRUST,IDL	LB	142.8	0.0	KN	0.635	0.002
WIND D			TEMP	(R)	1254.7	1027.7	(K)	697.1	570.9	THRUST,MEA	LB		0.0	KN	0.0	
WIND V	0MPH	0.0M/S	RHO	LB/FT3	0.037	0.039	KG/M3	0.596	0.624	AREA (MOD)	SQFT	0.060	0.080	SQM	0.006	0.007
REL H	16%		VEL	FPS	1532.2	90.3	M/S	467.0	27.5	W (MODEL)	LB/S	3.0	0.2	KG/S	1.4	0.1

1/3 OCTAVE BAND MODEL JET NOISE DATA 15.0FT RADIUS THEORETICAL DAY SPL - (MODEL)

BAND CENTER FREQ (KHZ)	MICROPHONE ANGLES IN DEGREES 60	70	80	90	100	110	120	130	140	150	160	POWER 1E-12W
.050	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
.063	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
.080	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
.100	72.3	75.4	78.6	79.2	78.7	79.0	81.3	83.8	85.3	89.2	92.6	0.0
.125	74.2	78.1	79.1	78.4	80.4	81.4	81.2	84.9	88.2	90.7	93.1	105.5
.160	77.5	80.6	80.1	79.7	78.4	79.8	80.7	82.9	88.7	92.6	95.3	106.9
.200	76.9	77.6	79.1	80.2	81.1	82.1	84.3	86.6	92.5	96.6	97.9	107.8
.250	78.3	79.8	81.2	82.9	83.6	84.1	86.5	89.3	94.9	99.1	101.2	111.0
.315	81.0	81.5	86.9	84.5	85.4	86.5	88.6	92.9	97.0	101.4	104.5	113.6
.400	83.9	84.6	87.7	87.4	88.7	90.2	92.5	96.4	101.1	105.3	108.5	116.3
.500	86.0	86.3	88.7	89.6	89.6	91.1	94.1	97.8	104.3	108.2	108.7	120.1
.630	89.0	88.9	89.8	91.2	91.4	93.2	96.3	100.8	106.5	110.4	111.0	122.2
.800	89.3	91.3	91.9	92.3	93.1	93.9	96.7	102.4	108.0	112.2	111.6	124.5
1.00	91.3	90.8	91.9	92.4	94.1	96.3	99.2	104.0	109.4	112.4	112.2	125.9
1.25	91.1	92.6	93.2	94.1	94.9	96.9	99.8	104.2	109.3	111.9	111.2	126.7
1.60	91.5	92.2	93.6	93.8	95.3	97.2	99.8	104.4	108.5	110.8	110.6	126.5
2.00	91.1	91.2	93.0	94.1	95.0	97.2	100.3	104.2	107.6	108.5	108.5	125.8
2.50	90.5	91.1	92.5	93.9	95.1	97.5	100.6	104.3	106.3	106.7	107.3	124.5
3.15	90.0	91.0	92.5	93.8	95.2	97.7	101.1	103.9	105.1	105.0	105.0	123.6
4.00	89.5	90.7	92.3	93.4	95.0	97.4	100.7	103.0	103.6	102.9	102.7	122.8
5.00	89.2	89.8	91.7	92.8	94.4	96.8	100.2	102.1	102.0	101.1	100.4	121.7
6.30	88.8	89.4	91.1	92.5	93.9	96.4	99.7	100.9	100.6	99.4	98.8	120.6
8.00	87.4	88.8	90.5	91.9	93.4	95.8	98.6	99.7	99.0	97.7	97.2	119.6
10.0	86.6	88.0	89.8	91.4	92.8	95.1	97.9	98.2	97.4	96.5	96.3	118.5
12.5	86.0	87.1	88.9	90.6	91.9	94.3	96.6	96.9	95.8	95.5	95.4	117.4
16.0	84.9	86.4	88.6	89.9	91.2	93.7	95.9	96.0	95.0	94.6	94.8	116.3
20.0	83.4	85.2	87.2	88.7	90.2	92.0	94.7	94.4	93.9	93.4	93.5	115.5
25.0	82.9	84.3	86.7	88.7	89.7	92.0	93.5	93.6	93.2	93.0	93.1	114.2
31.5	82.5	84.5	86.8	88.2	89.7	91.4	93.5	93.7	93.7	92.7	92.3	113.6
40.0	82.9	85.0	87.2	89.0	90.1	92.1	93.4	94.2	93.9	93.3	92.5	113.5
50.0	83.1	85.0	87.2	89.0	90.2	92.4	94.2	94.3	94.3	93.5	92.7	113.6
63.0	83.3	85.1	87.6	89.3	90.8	92.5	94.3	94.6	95.1	93.6	92.4	114.2
80.0	84.2	85.9	88.9	90.0	91.8	93.2	95.2	95.3	98.3	95.0	93.7	114.5
100.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	115.9
												0.0

OAPWL = 135.8

OSPL 102.0 102.9 104.5 105.6 106.8 108.9 111.7 114.7 118.0 120.3 120.5

5.1E-31

20086F TAPE P7494 NASA VSCE (NAS3-20061) CONFIG. E 15.2049

STAND X206 RIG ID 070530 TEST DATE 03/11/77 SCALE RATIO 12.0/1 RUN NUMBER 2008 CONDITION 8627

			PRIMARY	FAN		PRIMARY	FAN		PRIMARY	FAN		PRIMARY	FAN
TEMP	77.0(F)	25.0(C)	AREA SQFT	8.640	11.520	SQM	0.803	1.070	MASS FLOW LB/S	432.0	25.9	KG/S	196.0	11.8
PRES	30.24IN	1.02BAR	P.R.	1.80	1.00		1.80	1.00	THRUST,IDL LB	20556.6	72.7	KN	91.437	0.323
WIND D			TEMP (R)	1254.7	1027.7	(K)	697.1	570.9	THRUST,MEA LB		0.0	KN	0.0	
WIND V	0MPH	0.0M/S	RHO LB/FT3	0.037	0.039	KG/M3	0.596	0.624	AREA (MOD) SQFT	0.060	0.080	SQM	0.006	0.007
REL H	70.0%		VEL FPS	1532.2	90.3	M/S	467.0	27.5	W (MODEL) LB/S	3.0	0.2	KG/S	1.4	0.1

FAN DAY

1/3 OCTAVE BAND ENGINE JET NOISE DATA 150.0FT RADIUS (SCALED ENGINE)

BAND CENTER FREQ (KHZ)	MICROPHONE ANGLES IN DEGREES 60	70	80	90	100	110	120	130	140	150	160	POWER 1E-12W
.050	90.6	90.5	91.4	92.8	93.0	94.8	97.9	102.4	108.1	112.0	112.6	
.063	90.9	92.9	93.5	93.9	94.7	95.5	98.3	104.0	109.6	113.8	113.2	147.6
.080	92.9	92.4	93.5	94.0	95.7	97.9	100.8	105.6	111.0	114.0	113.8	149.1
.100	92.7	94.2	94.8	95.7	96.5	98.5	101.4	105.8	110.9	113.5	112.8	149.9
.125	93.1	93.8	95.2	95.4	96.9	98.8	101.4	106.0	110.1	112.4	112.2	149.6
.150	92.6	92.7	94.5	95.6	96.5	98.7	101.8	105.7	109.1	110.0	110.0	148.9
.200	92.0	92.6	94.0	95.4	96.6	99.0	102.1	105.8	107.8	108.2	108.8	147.6
.250	91.5	92.5	94.0	95.3	96.7	99.2	102.6	105.4	106.6	106.5	106.5	146.8
.315	91.6	92.2	93.8	94.9	96.5	98.9	102.2	104.5	105.1	104.4	104.2	145.9
.400	90.7	91.3	93.2	94.3	95.9	98.3	101.7	103.6	103.5	102.6	101.9	144.6
.500	90.2	90.8	92.5	93.9	95.3	97.6	101.1	102.3	102.0	100.8	100.2	143.7
.630	88.5	90.2	91.9	93.3	94.8	97.2	100.0	101.1	100.4	99.1	98.6	142.6
.800	87.4	89.4	91.2	92.8	94.2	96.5	99.3	99.6	98.8	97.9	97.7	141.5
1.00	87.3	88.4	90.2	91.9	93.2	95.6	97.9	98.2	97.1	96.8	96.7	140.4
1.25	86.1	87.6	89.8	91.1	92.4	94.9	97.1	97.2	96.2	95.8	96.0	139.2
1.60	84.5	86.3	88.3	89.8	91.3	93.1	95.8	95.5	95.0	94.5	94.6	138.3
2.00	84.0	85.4	87.8	89.6	90.8	93.1	94.6	94.7	94.3	94.1	94.2	136.9
2.50	83.4	85.4	87.7	89.1	90.6	92.3	94.4	94.6	94.6	93.6	93.2	136.2
3.15	83.6	85.7	87.9	89.7	90.8	92.8	94.1	94.9	94.6	94.0	93.2	136.0
4.00	83.6	85.5	87.7	89.5	90.7	92.9	94.7	94.8	94.8	94.0	93.2	136.1
5.00	83.6	85.4	87.9	89.6	91.1	92.8	94.6	94.9	95.4	93.9	92.7	136.2
6.30	84.2	85.9	88.9	90.0	91.8	93.2	95.2	95.3	98.3	95.6	93.7	136.4
8.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	137.4
10.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

OAPWL = 158.4

OSPL	103.1	104.0	105.5	106.6	107.9	110.1	113.0	115.9	119.1	121.3	121.1	
PNL	111.0	112.6	114.5	116.0	117.3	119.4	121.7	122.9	124.2	124.2	123.8	
				200. SIDELINE								
PNL	107.0	109.3	111.7	113.3	114.4	116.1	117.6	117.7	117.1	115.2	111.3	
				370. SIDELINE								
PNL	100.8	103.2	105.6	107.3	108.4	110.0	111.4	111.6	111.1	109.3	105.2	
				800. SIDELINE								
PNL	92.3	94.7	97.2	98.9	100.0	101.5	103.1	103.6	103.2	101.3	96.9	
				2128. SIDELINE								
PNL	80.7	82.8	85.2	86.7	88.0	89.7	91.6	92.4	92.0	90.2	85.2	

STAND X206 RIG ID 070530 TEST DATE 03/11/77 SCALE RATIO 12.0/1 RUN NUMBER 20086 CONDITION 8626

					PRIMARY	FAN			PRIMARY	FAN				PRIMARY	FAN
TEMP	93°F	33.9°C	AREA	SQFT	0.0	0.0	SQM	0.0	0.0	MASS FLOW	LB/S	0.0	0.0	KG/S	0.0	0.0
PRES	30.24IN	1.02BAR	P.R.		2.50	1.00		2.50	1.00	THRUST,IDL	LB	245.7	0.0	KN	1.093	0.000
WIND D			TEMP	(R)	1263.7	1055.7	(K)	702.1	586.5	THRUST,MEA	LB		0.0	KN	0.0	
WIND V	0MPH	0.0M/S	RHO	LB/FT3	0.040	0.038	KG/M3	0.644	0.608	AREA (MOD)	SQFT	0.060	0.080	SQM	0.006	0.007
REL H	16 %		VEL	FPS	1879.3	809.3	M/S	572.8	33.3	W (MODEL)	LB/S	4.2	0.2	KG/S	1.9	0.1

1/3 OCTAVE BAND MODEL JET NOISE DATA 15.0FT RADIUS

THEORETICAL DAY SPL - (MODEL)

BAND CENTER FREQ (KHZ)	MICROPHONE ANGLES IN DEGREES 60	70	80	90	100	110	120	130	140	150	160	POWER 1E-12W
.050	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
.063	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
.080	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	111.3
.100	78.5	81.8	85.0	84.7	84.1	85.2	87.0	88.9	90.6	94.9	99.1	112.5
.125	80.1	84.0	84.8	84.8	86.7	87.4	86.5	89.5	93.3	96.3	99.2	113.4
.160	84.7	87.3	86.2	86.1	84.7	85.9	86.6	88.5	94.2	98.6	101.7	117.1
.200	83.3	83.4	85.2	86.5	87.3	88.2	90.2	92.0	98.2	102.6	104.5	119.8
.250	84.6	85.2	86.7	88.5	89.6	90.5	92.2	95.0	100.8	105.2	107.8	122.3
.315	86.8	86.6	93.1	90.0	90.8	92.1	94.2	98.1	102.6	107.4	111.2	126.3
.400	90.3	90.7	93.0	93.1	94.3	95.9	98.0	101.6	107.0	111.6	115.0	128.6
.500	94.4	91.9	94.2	95.2	95.1	96.8	99.6	103.5	110.4	115.0	115.1	130.9
.630	95.3	94.4	95.6	97.4	97.1	99.2	101.8	106.7	113.1	117.0	117.2	132.6
.800	94.7	96.4	97.6	98.1	99.1	99.8	102.3	108.7	115.0	119.0	117.8	133.6
1.00	97.0	96.5	97.7	98.4	100.0	102.5	105.1	111.0	117.2	119.6	118.4	134.4
1.25	97.6	98.8	99.5	100.4	101.5	103.4	106.1	111.8	118.0	119.9	118.2	135.1
1.60	98.4	99.5	100.4	100.8	102.1	104.2	106.7	112.5	118.4	120.8	119.2	134.7
2.00	100.0	99.1	100.7	101.4	102.2	104.1	107.3	112.3	117.9	120.4	118.8	134.4
2.50	99.1	98.7	100.0	101.2	102.2	104.6	107.8	112.5	116.9	120.1	119.2	133.7
3.15	98.6	98.8	99.9	101.0	102.2	104.8	108.5	112.2	115.9	119.6	117.1	132.4
4.00	98.1	98.3	99.5	100.4	101.9	104.6	108.3	111.4	114.6	118.1	114.4	131.2
5.00	100.5	98.9	99.2	100.2	101.5	104.3	108.1	110.6	113.6	116.2	111.6	130.1
6.30	101.9	100.7	100.5	100.2	101.3	104.2	107.7	109.6	112.9	113.9	109.9	129.2
8.00	101.0	101.3	101.5	101.2	101.1	103.8	107.1	108.7	111.9	112.2	108.4	128.2
10.0	97.9	100.0	101.5	101.3	101.4	103.4	106.3	107.4	110.4	111.0	107.7	127.0
12.5	97.8	97.8	99.5	101.1	101.4	103.2	105.5	106.0	108.8	109.8	106.8	126.2
16.0	97.2	97.6	98.8	99.7	101.1	103.1	105.0	105.2	107.4	108.6	106.0	124.9
20.0	95.0	96.5	97.9	98.6	99.5	101.7	104.3	103.8	105.9	107.3	104.7	124.3
25.0	94.6	95.2	97.1	98.6	99.1	101.5	103.1	103.2	104.9	106.8	104.7	124.2
31.5	93.8	95.5	97.3	98.3	99.2	100.9	103.2	103.3	105.1	106.5	104.3	124.7
40.0	94.1	96.0	97.9	99.0	99.5	101.6	102.8	103.9	105.5	107.5	105.1	125.6
50.0	94.0	95.8	97.9	99.0	99.6	101.9	103.7	103.9	105.9	107.9	105.7	125.4
63.0	93.9	95.5	98.1	99.4	100.3	101.8	103.8	104.6	106.7	108.3	105.9	127.2
80.0	94.7	96.4	99.5	100.3	101.5	102.7	104.8	105.5	109.7	110.3	108.0	0.0
100.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	

OAPWL = 144.7

OSPL	111.4	111.6	112.9	113.6	114.4	116.6	119.4	122.7	127.4	130.1	128.6	

5.1E-33

STAND X206 RIG ID 070530 TEST DATE 03/11/77 SCALE RATIO 12.0/1 RUN NUMBER 2008 CONDITION 8628

					PRIMARY	FAN		PRIMARY	FAN			PRIMARY	FAN		PRIMARY	FAN
TEMP	77.0(F)	25.0(C)	AREA	SQFT	8.640	11.520	SQM	0.803	1.070	MASS FLOW	LB/S	606.2	25.9	KG/S	275.0	11.8
PRES	30.24IN	1.02BAR	P.R.		2.50	1.00		2.50	1.00	THRUST,IDL	LB	35382.2	88.3	KN	157.367	0.391
WIND D			TEMP	(R)	1263.7	1055.7	(K)	702.1	586.5	THRUST,MEA	LB		0.0	KN	0.0	
WIND V	0MPH	0.0M/S	RHO	LB/FT3	0.040	0.038	KG/M3	0.644	0.608	AREA (MOD)	SQFT	0.060	0.080	SQM	0.006	0.007
REL H	70.0%		VEL	FPS	1879.3	1[illegible].3	M/S	572.8	33.3	W (MODEL)	LB/S	4.2	0.2	KG/S	1.9	0.1

FAA DAY

1/3 OCTAVE BAND ENGINE JET NOISE DATA 150.0FT RADIUS (SCALED ENGINE)

BAND CENTER FREQ (KHZ) — MICROPHONE ANGLES IN DEGREES

	60	70	80	90	100	110	120	130	140	150	160	POWER 1E-12W
.050	96.9	96.0	97.2	99.0	98.7	100.8	103.4	108.3	114.7	118.6	118.8	
.063	96.3	98.0	99.2	99.7	100.7	101.4	103.9	110.3	116.6	120.6	119.4	154.6
.080	98.6	98.1	99.3	100.0	101.6	104.1	106.7	112.6	118.8	121.2	120.0	155.7
.100	99.2	100.4	101.1	102.0	103.1	105.0	107.7	113.4	119.6	121.5	119.8	157.6
.125	100.0	101.1	102.0	102.4	103.7	105.8	108.3	114.1	120.0	122.4	120.8	157.5
.160	101.5	100.5	102.2	102.9	103.7	105.6	108.8	113.8	119.4	121.9	120.3	158.2
.200	100.6	100.2	101.5	102.7	103.7	106.1	108.3	114.0	118.4	121.6	120.7	157.8
.250	100.1	100.3	101.4	102.5	103.7	106.3	110.0	113.7	117.4	121.1	118.6	157.5
.315	99.6	99.8	101.0	101.9	103.4	106.1	109.8	112.9	116.1	119.6	115.9	156.8
.400	102.0	100.4	100.7	101.7	103.0	105.8	109.6	112.1	115.1	117.7	113.1	155.3
.500	103.3	102.1	101.9	101.6	102.7	105.6	109.1	111.0	114.3	115.3	111.3	154.3
.630	102.4	102.7	102.9	102.6	102.5	105.2	108.5	110.1	113.3	113.6	109.8	153.1
.800	99.3	101.4	102.9	102.9	102.8	104.8	107.7	108.6	111.8	112.4	109.1	152.2
1.00	99.1	99.1	100.8	102.4	102.7	104.5	106.8	107.3	110.1	111.1	108.1	151.1
1.25	98.4	98.8	100.0	100.9	102.3	104.3	106.2	106.4	108.6	109.8	107.2	149.9
1.60	96.1	97.6	99.0	99.7	100.6	102.8	105.4	104.9	107.0	108.4	105.8	149.0
2.00	95.7	96.3	98.2	99.7	100.2	102.6	104.2	104.3	106.0	107.9	105.8	147.6
2.50	94.7	96.4	98.2	99.2	100.1	101.8	104.1	104.2	106.0	107.4	105.2	146.9
3.15	94.8	96.7	98.6	99.7	100.2	102.3	103.5	104.6	106.2	108.2	105.8	146.6
4.00	94.5	96.3	98.4	99.5	100.1	102.4	104.2	104.4	106.4	108.4	106.2	146.9
5.00	94.2	95.8	98.4	99.7	100.6	102.1	104.1	104.8	107.0	108.6	106.2	147.1
6.30	94.7	96.4	99.5	100.3	101.5	102.7	104.8	105.5	109.7	110.3	108.0	147.3
8.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	146.7
10.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
												0.0

OAPWL = 167.5

OSPL	112.6	112.8	113.9	114.7	115.6	117.8	120.6	124.0	128.7	131.3	129.6	
PNL	121.6	122.7	124.3	125.2	126.0	128.1	130.4	131.9	135.3	137.0	134.8	

200. SIDELINE

PNL	117.6	119.4	121.5	122.5	123.1	124.8	126.3	126.7	128.1	127.9	122.2	

370. SIDELINE

PNL	111.5	113.3	115.4	116.5	117.1	118.7	120.1	120.6	122.0	121.9	116.0	

800. SIDELINE

PNL	103.3	104.8	107.0	108.1	108.6	110.2	111.6	112.3	114.0	113.8	107.5	

2128. SIDELINE

PNL	91.8	92.9	94.5	95.2	96.0	97.7	99.8	101.0	102.7	102.3	95.7	

STAND X206 RIG ID 070530 TEST DATE 03/11/77 SCALE RATIO 12.0/1 RUN NUMBER 20086 CONDITION 8629

			PRIMARY	FAN		PRIMARY	FAN			PRIMARY	FAN		PRIMARY	FAN
TEMP 93°F 33.9°C	AREA	SQFT	0.0	0.0	SQM	0.0	0.0	MASS FLOW	LB/S	0.0	0.0	KG/S	0.0	0.0
PRES 30.24IN 1.02BAR	P-R-		3.21	1.00		3.21	1.00	THRUST,IDL	LB	351.8	0.0	KN	1.565	0.002
WIND D	TEMP	(R)	1265.7	1085.7	(K)	703.2	603.2	THRUST,MEA	LB		0.0	KN	0.0	
WIND V 0MPH 0.0M/S	RHO	LB/FT3	0.043	0.037	KG/M3	0.686	0.591	AREA (MOD)	SQFT	0.060	0.080	SQM	0.006	0.007
REL H 16 %2	VEL	FPS	2089.8	937.8	M/S	637.0	28.3	W (MODEL)	LB/S	5.4	0.2	KG/S	2.5	0.1

1/3 OCTAVE BAND MODEL JET NOISE DATA 15.0FT RADIUS THEORETICAL DAY SPL - (MODEL)

BAND CENTER FREQ (KHZ)	MICROPHONE ANGLES IN DEGREES 60	70	80	90	100	110	120	130	140	150	160	POWER 1E-12W
.050	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
.063	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
.080	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
.100	82.9	86.4	90.0	88.5	87.8	89.1	90.5	92.2	94.3	98.9	103.5	115.4
.125	84.4	87.9	89.1	89.0	90.6	91.1	89.7	92.7	96.5	99.8	103.4	116.3
.160	89.4	91.7	90.3	90.1	88.9	89.8	90.8	92.2	97.7	102.3	106.0	117.8
.200	87.9	87.7	89.2	90.4	91.3	92.4	94.1	95.8	102.0	106.7	108.8	121.1
.250	88.7	88.9	90.8	91.9	92.9	94.5	95.9	98.5	104.4	109.0	112.1	123.7
.315	90.8	90.2	95.9	93.8	94.6	95.8	97.9	101.6	106.4	111.6	115.5	126.4
.400	94.3	94.3	95.8	96.3	97.6	99.6	101.6	105.1	110.6	115.7	119.3	130.3
.500	97.7	95.7	97.6	98.5	98.1	100.1	103.0	106.9	114.1	119.0	119.0	132.5
.630	98.6	98.1	98.8	100.7	100.5	102.2	105.0	110.2	117.0	120.8	121.1	134.7
.800	98.2	99.4	100.6	101.3	102.3	103.1	105.6	112.3	118.9	122.8	121.2	136.3
1.00	99.9	99.6	100.8	101.7	103.2	105.7	108.5	114.8	121.5	123.6	121.8	137.8
1.25	101.0	101.5	102.6	103.4	104.5	106.5	109.5	115.9	122.4	123.8	121.5	138.3
1.60	100.7	102.1	103.0	103.6	104.7	107.2	110.0	116.6	123.3	124.7	122.1	139.2
2.00	102.2	102.1	103.2	104.0	104.9	107.2	110.7	116.7	123.6	124.6	121.1	139.1
2.50	103.4	101.9	103.1	103.8	105.1	107.6	111.6	117.0	123.7	124.6	120.3	139.2
3.15	106.5	105.3	104.2	104.1	105.3	108.0	112.3	116.6	123.4	123.2	117.4	139.5
4.00	108.5	108.3	107.9	105.8	105.5	108.1	112.3	116.0	122.9	120.3	115.3	137.6
5.00	108.9	108.6	108.9	108.2	106.2	108.1	112.3	115.4	121.9	118.5	113.0	136.8
6.30	107.6	108.0	108.9	108.7	108.3	108.8	112.2	114.7	120.5	116.6	111.2	135.7
8.00	106.1	106.8	107.9	108.4	108.1	109.5	111.8	114.0	118.8	115.3	109.8	134.7
10.0	104.6	106.1	107.1	107.4	107.8	109.8	111.7	113.2	117.5	114.1	108.8	133.8
12.5	104.4	105.0	106.4	106.8	107.0	109.4	111.5	112.1	116.2	113.1	108.1	132.9
16.0	103.7	104.6	106.2	106.3	106.8	108.9	111.3	111.3	115.4	112.0	107.5	132.3
20.0	102.1	103.5	105.0	105.5	105.9	107.2	110.3	110.2	114.0	110.8	106.5	131.1
25.0	101.6	102.8	104.5	105.5	105.8	107.3	109.0	109.3	113.2	110.5	106.5	130.5
31.5	101.0	102.9	104.8	105.6	105.9	107.0	109.2	109.5	113.5	110.3	106.1	130.6
40.0	101.4	103.7	105.5	106.6	106.3	108.0	109.2	110.0	114.0	111.3	106.9	131.2
50.0	101.4	103.4	105.6	106.8	106.8	108.4	110.2	110.4	114.4	111.7	107.7	131.6
63.0	101.5	103.3	106.0	107.1	107.7	109.0	110.4	111.1	115.2	112.5	108.0	132.3
80.0	102.5	104.2	107.2	108.0	108.9	109.9	111.8	112.6	118.1	114.5	110.0	134.1
100.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
OSPL	117.6	118.1	119.2	119.5	119.7	121.5	124.2	127.5	133.6	133.9	131.4	OAPWL = 149.5

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STAND X206 RIG ID 070530 TEST DATE 03/11/77 SCALE RATIO 12.0/1 RUN NUMBER 2008 CONDITION 8629

					PRIMARY	FAN		PRIMARY	FAN				PRIMARY	FAN		PRIMARY	FAN
TEMP	77.0(F)	25.0(C)	AREA	SQFT	8.640	11.520	SQM	0.803	1.070	MASS FLOW	LB/S	780.5	25.9	KG/S	354.0	11.8
PRES	30.24IN	1.028AR	P.R.		3.21	1.00		3.21	1.00	THRUST,IDL	LB	50654.6	74.7	KN	225.319	0.332
WIND D			TEMP	(R)	1265.7	1085.7	(K)	703.2	603.2	THRUST,MEA	LB		0.0	KN	0.0	
WIND V	0MPH	0.0M/S	RHO	LB/FT3	0.043	0.037	KG/M3	0.686	0.591	AREA (MOD)	SQFT	0.060	0.080	SQM	0.006	0.007
REL H	70.0%		VEL	FPS	2089.8	92.8	M/S	637.0	28.3	W (MODEL)	LB/S	5.4	0.2	KG/S	2.5	0.1

FAA DAY 1/3 OCTAVE BAND ENGINE JET NOISE DATA 150.0FT RADIUS (SCALED ENGINE)

BAND CENTER FREQ (KHZ)	MICROPHONE ANGLES IN DEGREES 60	70	80	90	100	110	120	130	140	150	160	POWER 1E-12W
.050	100.2	99.7	100.4	102.3	102.1	103.8	106.6	111.8	118.6	122.4	122.7	157.6
.063	99.8	101.0	102.2	102.9	103.9	104.7	107.2	113.9	120.5	124.4	122.8	159.5
.080	101.5	101.2	102.4	103.3	104.8	107.3	110.1	116.4	123.1	125.2	123.4	160.9
.100	102.6	103.1	104.2	105.0	106.1	108.1	111.1	117.5	124.0	125.4	123.1	161.5
.125	102.3	103.7	104.6	105.2	106.3	108.8	111.6	118.2	124.9	126.3	123.7	162.3
.160	103.7	103.6	104.7	105.5	106.4	108.7	112.2	118.2	125.1	126.1	122.6	162.3
.200	104.9	105.4	104.6	105.3	106.6	109.1	113.1	118.5	125.2	126.1	121.8	162.3
.250	106.0	106.8	105.7	105.6	106.8	109.5	113.8	118.1	124.9	124.7	118.9	161.6
.315	106.6	108.8	108.4	107.3	107.0	109.6	113.8	117.5	124.4	121.8	116.8	160.7
.400	110.4	110.1	110.4	109.7	107.7	109.6	113.8	116.9	123.4	120.0	114.5	159.6
.500	109.0	109.4	110.3	110.1	109.7	110.2	113.6	116.1	121.9	118.0	112.6	158.3
.630	107.5	108.2	109.3	109.8	109.5	110.9	113.2	115.4	120.2	116.7	111.0	157.7
.800	106.0	107.5	108.5	108.8	109.2	111.2	113.1	114.6	118.9	115.5	110.2	156.8
1.00	105.7	106.3	107.7	108.1	108.3	110.7	112.8	113.4	117.5	114.4	109.4	155.8
1.25	104.9	105.8	107.4	107.5	108.0	110.1	112.5	112.5	116.6	113.2	108.7	155.1
1.60	103.7	104.6	106.1	106.6	107.0	108.3	111.4	111.3	115.1	111.9	107.6	153.8
2.00	102.7	103.9	105.6	106.6	106.9	108.4	110.1	110.4	114.3	111.6	107.6	153.1
2.50	101.9	103.8	105.7	106.5	106.8	107.9	110.1	110.4	114.4	111.2	107.0	153.0
3.15	102.1	104.4	106.2	107.3	107.0	108.7	109.9	110.7	114.7	112.0	107.6	153.4
4.00	101.9	103.9	106.1	107.3	107.3	108.9	110.7	110.9	114.9	112.2	108.2	153.7
5.00	101.8	103.6	106.3	107.4	108.0	109.3	110.7	111.4	115.5	112.8	108.3	154.1
6.30	102.5	104.2	107.2	108.0	108.9	109.9	111.8	112.6	118.1	114.5	110.0	155.6
8.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

OAPWL = 172.3

OSPL	118.8	119.2	120.3	120.5	120.8	122.5	125.3	128.7	134.9	135.1	132.1	
PNL	128.4	129.7	131.3	132.0	132.1	133.8	136.1	137.6	142.8	140.7	136.5	
				200. SIDELINE								
PNL	124.3	126.4	128.4	129.3	129.3	130.4	131.9	132.3	135.7	131.6	123.9	
				370. SIDELINE								
PNL	118.2	120.4	122.3	123.2	123.1	124.3	125.7	126.1	129.3	125.6	117.6	
				800. SIDELINE								
PNL	110.1	111.8	113.8	114.7	114.6	115.7	117.0	117.5	121.3	117.5	109.2	
				2128. SIDELINE								
PNL	98.5	99.9	101.4	101.7	101.6	102.5	104.5	105.9	109.7	106.1	97.5	

C-3

5.1E-36

STAND X206 RIG ID 070530 TEST DATE 03/11/77 SCALE RATIO 12.0/1 RUN NUMBER 20086 CONDITION 8630

					PRIMARY	FAN			PRIMARY	FAN			PRIMARY	FAN		PRIMARY	FAN
TEMP	93°F	33.9°C	AREA	SQFT	0.0	0.0		SQM	0.0	0.0	MASS FLOW	LB/S	0.0	0.0	KG/S	0.0	0.0
PRES	30.24IN	1.02BAR	P.R.		1.80	1.00			1.80	1.00	THRUST,IDL	LB	141.2	0.0	KN	0.628	0.000
WIND D			TEMP	(R)	1969.7	1486.7		(K)	1094.3	825.9	THRUST,MEA	LB		0.0	KN	0.0	
WIND V	0MPH	0.0M/S	RHO	LB/FT3	0.023	0.027		KG/M3	0.375	0.431	AREA (MOD)	SQFT	0.000	0.000	SQM	0.000	0.000
REL H	16 %		VEL	FPS	1926.6	91.8		M/S	587.2	28.0	W (MODEL)	LB/S	2.4	0.2	KG/S	1.1	0.1

1/3 OCTAVE BAND MODEL JET NOISE DATA 15.0FT RADIUS THEORETICAL DAY SPL - (MODEL)

BAND CENTER FREQ (KHZ)	MICROPHONE ANGLES IN DEGREES 60	70	80	90	100	110	120	130	140	150	160	POWER 1E-12W
.050	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
.063	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
.080	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
.100	76.1	79.0	82.3	83.0	82.5	83.0	86.5	89.3	90.1	92.9	95.8	109.7
.125	77.0	81.9	85.9	87.6	87.7	87.8	94.3	98.7	99.0	98.3	99.9	116.8
.160	81.0	84.2	83.6	83.1	81.8	83.4	84.6	87.3	92.6	96.2	99.0	111.6
.200	81.0	81.4	82.2	83.0	84.1	85.1	87.9	90.9	96.8	100.4	101.4	114.8
.250	82.5	83.9	84.9	86.3	86.8	88.0	90.7	94.3	99.4	103.1	104.9	117.7
.315	85.6	85.8	90.9	87.8	88.5	89.8	92.7	97.6	101.3	105.4	107.9	120.2
.400	88.0	88.3	91.2	90.6	91.7	93.4	96.8	101.1	105.6	109.2	111.5	123.9
.500	91.6	90.0	91.5	93.1	92.9	94.4	98.3	103.1	109.3	112.3	111.4	126.4
.630	91.6	91.6	93.3	94.4	94.9	96.8	100.8	106.1	111.3	114.0	113.1	128.3
.800	92.6	94.5	95.2	95.7	96.3	97.7	102.0	108.6	113.7	115.7	113.6	130.2
1.00	94.1	93.9	95.6	96.1	98.0	100.3	104.3	110.8	115.4	116.4	114.5	131.5
1.25	94.9	96.6	97.1	98.1	99.2	101.3	105.4	111.6	116.3	116.4	114.4	132.6
1.60	96.1	96.6	98.3	98.4	99.8	102.1	106.0	112.2	116.5	117.4	115.2	132.7
2.00	96.4	96.3	97.8	99.0	100.2	102.3	106.5	111.7	115.9	117.1	114.8	132.2
2.50	96.0	96.4	97.9	98.9	100.4	103.0	107.1	111.4	114.7	116.5	115.0	131.7
3.15	95.8	96.5	97.8	99.2	100.6	103.4	107.4	110.5	113.5	115.7	113.5	130.9
4.00	94.5	95.8	97.2	98.6	100.5	103.2	107.1	109.3	112.0	113.7	111.0	129.5
5.00	93.9	94.6	96.5	98.2	99.9	103.0	106.6	108.0	110.7	111.9	108.2	128.2
6.30	93.3	94.0	95.9	97.7	99.7	102.7	106.1	106.9	109.5	109.7	106.4	126.9
8.00	91.7	93.4	95.3	97.0	98.9	102.1	105.2	105.5	107.9	107.8	105.3	125.6
10.0	90.2	92.5	94.5	96.3	98.4	101.4	104.0	104.0	106.3	106.5	104.2	124.4
12.5	90.1	91.2	93.7	95.6	97.4	100.4	102.8	102.6	104.1	105.1	103.2	123.0
16.0	88.9	90.8	93.2	94.7	96.8	99.8	101.8	101.1	102.8	103.9	102.4	121.9
20.0	87.3	89.5	91.8	93.5	95.4	98.0	100.4	99.5	101.2	102.6	101.0	120.4
25.0	86.6	88.5	91.1	93.3	95.1	97.6	99.1	98.8	100.1	101.9	100.8	119.7
31.5	86.3	88.3	91.0	92.8	94.6	96.9	98.9	98.6	100.0	101.4	100.0	119.3
40.0	86.5	88.9	91.4	93.4	94.8	97.4	98.6	98.9	100.1	102.1	100.6	119.6
50.0	86.8	88.4	91.2	93.2	94.8	97.3	99.3	99.0	100.0	102.4	100.8	119.8
63.0	86.9	88.9	91.5	93.5	95.3	97.5	99.4	99.3	100.0	102.7	100.8	120.0
80.0	87.9	89.8	92.9	94.3	96.4	98.2	100.3	100.3	102.0	104.1	102.6	121.3
100.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
OSPL	106.4	107.3	109.0	110.2	111.7	114.3	117.7	121.3	125.1	126.5	124.8	OAPWL = 141.9

ORIGINAL PAGE IS OF POOR QUALITY

STAND X206 RIG ID 070530 TEST DATE 03/11/77 SCALE RATIO 12.0/1 RUN NUMBER 2008 CONDITION 8630

					PRIMARY	FAN		PRIMARY	FAN				PRIMARY	FAN
TEMP	77.0(F)	25.0(C)	AREA	SQFT	8.640	11.520	SQM	0.803	1.070	MASS FLOW	LB/S	339.8	25.4	KG/S	154.2	11.6
PRES	30.24IN	1.02BAR	P.R.		1.80	1.00		1.80	1.00	THRUST,IDL	LB	333.3	23.0	KN	96.446	0.329
WIND D			TEMP	(R)	1969.7	1486.7	(K)	1094.3	825.9	THRUST,MEA	LB		0.0	KN	0.0	
WIND V	OMPH	0.0M/S	RHO	LB/FT3	0.023	0.027	KG/M3	0.375	0.431	AREA (MOD)	SQFT	0.060	0.080	SQM	0.006	0.007
REL H	70.0%		VEL	FPS	1926.6	91.3	M/S	587.2	28.0	W (MODEL)	LB/S	2.4	0.2	KG/S	1.1	0.1

FAA DAY

1/3 OCTAVE BAND ENGINE JET NOISE DATA 150.0FT RADIUS (SCALED ENGINE)

BAND CENTER FREQ (KHZ)	MICROPHONE ANGLES IN DEGREES 60	70	80	90	100	110	120	130	140	150	160	POWER 1E-12W
.050	93.2	93.2	94.9	96.0	96.5	98.4	102.4	107.7	112.9	115.6	114.7	151.5
.063	94.2	96.1	96.8	97.3	97.9	99.3	103.6	110.2	115.3	117.3	115.2	153.3
.080	95.7	95.5	97.2	97.7	98.6	101.9	105.9	112.4	117.0	118.0	116.1	154.6
.100	96.5	96.2	96.7	99.7	100.8	102.9	107.0	113.2	117.9	118.0	116.0	155.2
.125	97.7	98.2	99.9	100.6	101.4	103.7	107.6	113.8	118.1	119.0	116.8	155.6
.160	97.9	97.8	99.3	100.5	101.7	103.8	108.0	113.2	117.4	118.6	116.3	155.3
.200	97.5	97.9	99.4	100.4	101.9	104.5	108.6	112.9	116.2	118.0	116.5	154.8
.250	97.3	98.0	99.5	100.7	102.1	104.9	108.9	112.0	115.0	117.2	115.0	154.0
.315	96.0	97.3	98.7	100.1	102.0	104.7	108.6	110.8	113.5	115.2	112.5	152.5
.400	95.4	96.1	98.0	99.7	101.4	104.5	108.1	109.5	112.2	113.4	109.7	151.2
.500	94.7	95.4	97.3	99.1	101.1	104.1	107.5	108.3	110.9	111.1	107.8	149.9
.630	93.1	94.8	96.7	98.4	100.3	103.5	106.6	106.9	109.3	109.2	106.7	148.6
.800	91.6	93.9	95.9	97.7	99.8	102.8	105.4	105.4	107.7	107.9	105.6	147.3
1.00	91.4	92.5	95.0	96.9	98.7	101.7	104.1	103.9	105.4	106.4	104.5	145.9
1.25	90.1	92.0	94.4	95.9	98.0	101.0	103.0	102.3	104.0	105.1	103.6	144.8
1.60	88.4	90.6	92.9	94.6	96.5	99.1	101.5	100.6	102.3	103.7	102.1	143.2
2.00	87.9	89.6	92.2	94.4	96.2	98.7	100.2	99.9	101.2	103.0	101.9	142.3
2.50	87.2	89.2	91.9	93.7	95.5	97.8	99.8	99.5	100.9	102.3	100.9	141.8
3.15	87.2	89.6	92.1	94.1	95.5	98.1	99.3	99.6	100.8	102.8	101.3	141.9
4.00	87.3	89.4	91.7	93.7	95.3	97.8	99.8	99.5	100.5	102.9	101.3	141.8
5.00	87.2	89.2	91.8	93.8	95.6	97.7	99.7	99.6	100.3	103.0	101.1	141.9
6.30	87.9	89.8	92.9	94.3	96.4	98.2	100.3	100.3	102.0	104.1	102.6	142.8
8.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

OAPWL = 164.7

OSPL	107.5	108.4	110.1	111.3	112.9	115.5	119.0	122.6	126.4	127.7	125.6	
PNL	115.1	116.7	118.9	120.6	122.2	124.8	127.3	128.4	131.1	132.7	130.8	
				200. SIDELINE								
PNL	111.0	113.5	116.1	117.9	119.4	121.5	123.2	123.3	124.5	123.7	118.1	
				370. SIDELINE								
PNL	104.9	107.4	110.1	111.9	113.4	115.4	117.0	117.5	118.7	117.7	111.9	
				800. SIDELINE								
PNL	96.8	99.0	101.7	103.5	105.0	107.0	109.1	109.8	110.9	109.7	103.5	
				2128. SIDELINE								
PNL	85.5	87.6	90.0	91.8	93.3	95.5	97.8	98.8	99.9	98.4	91.6	

STAND X206 RIG ID 070530 TEST DATE 03/11/77 SCALE RATIO 12.0/1 RUN NUMBER 20086 CONDITION 8631

					PRIMARY	FAN		PRIMARY	FAN		PRIMARY	FAN		PRIMARY	FAN
TEMP	93° F	33.9°C	AREA	SQFT	0.0	0.0	SQM	0.0	0.0	MASS FLOW LB/S	0.0	0.0	KG/S	0.0	0.0
PRES	30.24IN	1.028AR	P.R.		2.51	1.00		2.51	1.00	THRUST,IDL LB	244.6	0.9	KN	1.088	0.004
WIND D			TEMP	(R)	1962.7	1605.7	(K)	1090.4	892.1	THRUST,MEA LB		0.0	KN	0.0	
WIND V	0MPH	0.0M/S	RHO	LB/FT3	0.075	0.075	KG/M3	0.407	0.400	AREA (MOD) SQFT	0.060	0.080	SQM	0.006	0.007
REL H	16 %		VEL	FPS	2358.0	1550.0	M/S	718.7	50.3	W (MODEL) LB/S	3.3	0.2	KG/S	1.5	0.1

1/3 OCTAVE BAND MODEL JET NOISE DATA 15.0FT RADIUS THEORETICAL DAY SPL - (MODEL)

BAND CENTER FREQ (KHZ)	MICROPHONE ANGLES IN DEGREES 60	70	80	90	100	110	120	130	140	150	160	POWER 1E-12W
.050	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
.063	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
.080	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
.100	81.3	84.5	87.7	87.9	87.0	87.8	90.6	93.2	94.7	98.1	101.6	114.6
.125	82.3	86.6	90.0	91.3	91.5	91.7	97.6	101.9	102.4	102.5	104.4	120.2
.160	87.1	89.9	88.7	88.4	87.6	88.8	89.4	91.8	97.7	101.8	104.6	117.0
.200	86.0	85.9	86.9	88.4	89.6	90.4	92.8	95.4	102.0	106.1	107.7	120.4
.250	87.9	88.3	89.8	91.3	92.1	93.6	95.4	99.1	104.9	108.9	111.0	123.4
.315	90.8	90.0	95.4	92.9	93.7	94.9	97.6	102.6	107.0	111.5	114.2	126.1
.400	93.4	93.5	95.5	95.3	96.7	98.4	101.3	106.1	111.2	115.2	117.5	129.0
.500	96.9	94.5	96.3	97.6	97.6	99.2	102.7	107.8	114.8	118.3	117.1	132.0
.630	96.8	96.1	97.9	99.4	99.9	101.7	105.4	111.6	117.3	120.0	116.5	134.1
.800	97.2	98.6	99.7	100.5	101.2	102.6	106.8	114.1	119.4	121.3	118.6	135.7
1.00	98.6	98.6	99.9	101.1	102.6	105.1	109.5	116.8	121.6	121.4	119.0	137.1
1.25	99.1	100.8	101.5	102.6	103.9	106.2	110.8	118.2	122.6	121.6	118.6	137.8
1.60	99.9	100.8	102.2	103.1	104.5	107.0	111.7	119.5	123.4	122.5	119.0	138.8
2.00	100.7	100.6	102.4	103.7	105.0	107.7	112.8	119.8	124.0	122.5	118.1	139.6
2.50	100.5	100.9	102.5	103.9	105.6	108.7	113.5	120.0	124.2	122.0	117.2	139.1
3.15	100.2	101.1	102.8	104.1	106.0	109.3	114.2	119.5	124.1	120.3	114.5	138.6
4.00	99.9	100.9	102.9	104.3	106.3	109.6	114.1	118.7	123.1	117.5	113.0	137.6
5.00	100.6	100.8	102.6	104.1	106.1	109.7	113.9	118.1	121.2	116.1	110.9	136.4
6.30	100.3	101.1	102.5	104.2	106.2	109.8	113.6	117.5	119.3	114.5	109.8	135.2
8.00	98.7	100.3	102.5	104.1	105.9	109.4	112.9	116.8	118.0	113.5	108.7	134.4
10.0	97.1	99.5	101.8	103.8	105.6	109.0	112.1	115.8	116.8	112.7	106.0	133.4
12.5	97.0	98.4	101.0	102.9	105.0	108.5	111.2	114.4	115.6	111.5	107.2	132.3
16.0	96.2	98.0	100.6	102.4	104.7	108.0	110.5	113.3	114.5	110.6	106.5	131.4
20.0	94.8	96.9	99.4	101.3	103.5	106.3	109.1	111.9	113.3	109.2	105.3	130.1
25.0	94.2	96.1	99.0	101.2	103.6	106.2	108.1	111.1	112.4	108.8	105.0	129.4
31.5	93.6	96.2	98.9	100.9	102.9	105.6	108.3	111.1	112.6	108.6	104.7	129.8
40.0	93.8	96.6	99.3	101.6	103.0	106.2	108.0	111.7	113.1	109.5	105.4	130.2
50.0	93.9	96.2	99.1	101.3	103.0	106.1	108.7	112.1	113.5	110.0	105.8	130.7
63.0	94.2	96.3	99.4	101.4	103.4	106.1	109.1	112.9	114.0	110.6	106.1	132.7
80.0	94.8	97.2	100.4	102.2	104.4	107.0	110.4	114.7	116.7	112.6	108.2	0.0
100.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
OSPL	111.8	112.8	114.8	116.3	118.0	121.1	124.8	130.0	133.6	131.9	128.9	OAPWL = 149.1

5.1E-39

STAND X206 RIG ID 070530 TEST DATE 03/11/77 SCALE RATIO 12.0/1 RUN NUMBER 2008 CONDITION 8631

			PRIMARY	FAN		PRIMARY	FAN		PRIMARY	FAN		PRIMARY	FAN
TEMP	77.0(F)	25.0(C)	AREA SQFT	8.640	11.520	SQM	0.803	1.070	MASS FLOW LB/S	481.0	24.5	KG/S	218.2	11.1
PRES	30.24IN	1.028AR	P.R.	2.51	1.00		2.51	1.00	THRUST,IDL LB	35221.1	623.2	KN	156.676	0.558
WIND D			TEMP (R)	1962.7	1605.7	(K)	1090.4	892.1	THRUST,MEA LB		0.0	KN	0.0	
WIND V	CMPH	0.0M/S	RHO LB/FT3	0.025	0.025	KG/M3	0.407	0.400	AREA (MOD) SQFT	0.060	0.080	SQM	0.006	0.007
REL H	70.0%		VEL	FPS 2356.0	1651.8	M/S	718.7	503.3	W (MODEL) LB/S	3.3	0.2	KG/S	1.5	0.1

FAA DAY

1/3 OCTAVE BAND ENGINE JET NOISE DATA 150.0FT RADIUS (SCALED ENGINE)

BAND CENTER FREQ (KHZ)	MICROPHONE ANGLES IN DEGREES 60	70	80	90	100	110	120	130	140	150	160	POWER IE-12W
.050	98.4	97.7	99.5	101.0	101.5	103.3	107.6	113.2	118.9	121.6	120.1	
.063	98.8	100.2	101.3	102.1	102.8	104.2	109.4	115.7	121.0	122.9	120.2	157.3
.080	100.2	100.2	101.5	102.7	104.2	106.7	111.1	116.4	123.2	123.0	120.6	158.8
.100	100.7	102.4	103.1	104.2	105.5	107.8	112.4	119.8	124.2	123.2	120.2	160.2
.125	101.5	102.4	103.8	104.7	106.1	109.6	113.3	121.1	125.0	124.1	120.6	161.0
.160	102.2	102.1	103.9	105.2	106.5	109.2	114.3	121.3	125.5	124.0	119.6	161.9
.200	102.0	102.4	104.0	105.4	107.1	110.2	115.0	121.5	125.7	123.5	118.7	162.1
.250	101.7	102.6	104.3	105.6	107.5	110.8	115.7	121.0	125.6	121.8	116.0	162.2
.315	101.4	102.4	104.4	105.8	107.8	111.1	115.6	120.2	124.6	119.0	114.5	161.7
.400	102.1	102.3	104.1	105.6	107.6	111.2	115.4	119.6	122.7	117.6	112.4	160.7
.500	101.7	102.5	103.9	105.6	107.6	111.2	115.0	118.9	120.7	115.9	111.2	159.4
.630	100.1	101.7	103.9	105.5	107.3	110.8	114.3	118.2	119.4	114.9	110.1	158.3
.800	98.5	100.9	103.2	105.2	107.0	110.4	113.5	117.2	118.2	114.1	109.4	157.4
1.00	98.3	99.7	102.5	104.2	106.3	109.8	112.5	115.7	116.9	112.6	108.5	156.4
1.25	97.4	99.2	101.8	103.6	105.9	109.2	111.7	114.5	115.7	111.8	107.7	155.2
1.60	95.9	98.0	100.5	102.4	104.6	107.4	110.2	113.0	114.4	110.3	106.4	154.3
2.00	95.5	97.2	100.1	102.5	104.1	107.3	109.2	112.2	113.5	109.9	106.1	152.8
2.50	94.5	97.1	99.8	101.8	103.8	106.5	109.2	112.0	113.5	109.5	105.6	152.0
3.15	94.5	97.3	100.0	102.3	103.7	106.9	108.7	112.4	113.8	110.2	106.1	151.8
4.00	94.4	96.7	99.6	101.8	103.5	106.6	109.2	112.6	114.0	110.5	106.3	152.1
5.00	94.5	96.6	99.7	101.7	103.7	106.4	109.4	113.2	114.3	110.9	106.4	152.2
6.30	94.8	97.2	100.4	102.2	104.4	107.0	110.4	114.7	116.7	112.6	108.2	152.6
8.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	154.2
10.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
												0.0

OAPWL = 171.9

OSPL	112.9	113.9	115.8	117.4	119.2	122.3	126.1	131.3	134.9	133.0	129.4	
PNL	121.6	123.5	125.9	127.8	129.5	132.6	135.6	139.7	142.1	138.7	134.5	
				200. SIDELINE								
PNL	117.6	120.2	123.1	125.1	126.7	129.3	131.5	134.4	135.0	129.5	121.5	
				370. SIDELINE								
PNL	111.5	114.2	117.1	119.1	120.7	123.2	125.3	128.3	129.1	123.5	115.3	
				800. SIDELINE								
PNL	103.2	105.7	108.7	110.7	112.2	114.8	116.9	119.9	121.1	115.3	106.7	
				2128. SIDELINE								
PNL	91.7	93.8	96.4	98.2	99.9	102.5	105.3	108.4	109.8	103.9	94.8	

5.1E-40

STAND X206 RIG ID 070530 TEST DATE 03/11/77 SCALE RATIO 12.0/1 RUN NUMBER 20086 CONDITION 8632

				PRIMARY	FAN		PRIMARY	FAN			PRIMARY	FAN		PRIMARY	FAN
TEMP	80°F	26.7°C	AREA	SQFT	0.0	0.0	SQM	0.0	0.0	MASS FLOW LB/S	0.0	0.0	KG/S	0.0	0.0
PRES	30.24IN	1.02BAR	P.R.		4.01	0.98		4.01	0.98	THRUST,IDL LB	469.2	0.0	KN	2.087	0.0
WIND D			TEMP	(R)	1962.7	1616.7	(K)	1090.4	898.2	THRUST,MEA LB		0.0	KN	0.0	
WIND V	0MPH	0.0M/S	RHO	LB/FT3	0.028	0.025	KG/M3	0.456	0.394	AREA (MOD) SQFT	0.060	0.080	SQM	0.006	0.007
REL H	21 90		VEL	FPS	2818.8	0.0	M/S	859.2	0.0	W (MODEL) LB/S	5.4	0.1	KG/S	2.4	0.0

1/3 OCTAVE BAND MODEL JET NOISE DATA 15.0FT RADIUS THEORETICAL DAY SPL - (MODEL)

BAND CENTER FREQ (KHZ)	MICROPHONE ANGLES IN DEGREES 60	70	80	90	100	110	120	130	140	150	160	POWER 1E-12W
.050	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
.063	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
.080	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
.100	89.2	92.1	95.0	96.1	93.4	94.3	96.3	98.5	100.2	104.8	109.2	121.2
.125	89.9	93.3	94.0	97.3	96.8	96.4	95.4	99.6	103.0	106.6	109.7	122.6
.160	95.6	97.6	95.9	97.5	94.8	95.3	96.4	98.4	103.9	108.6	112.5	124.1
.200	94.2	93.2	94.7	97.3	96.8	97.6	99.7	102.3	108.5	113.3	115.7	127.7
.250	95.4	95.0	96.3	99.2	98.9	100.7	102.1	105.6	111.2	115.9	118.6	130.4
.315	96.6	95.8	98.4	100.8	100.6	101.8	104.3	108.9	113.1	118.6	121.9	133.1
.400	100.1	100.0	100.8	102.6	103.3	105.2	107.6	112.4	118.1	122.2	125.2	136.8
.500	101.7	100.4	102.1	103.7	103.0	105.1	108.8	114.1	121.4	125.4	124.0	136.6
.630	102.5	101.8	103.8	105.3	105.3	107.2	111.3	118.1	123.8	126.6	124.8	140.6
.800	102.9	103.2	105.0	106.7	107.0	108.2	112.7	120.3	126.0	127.6	124.1	142.0
1.00	104.2	103.8	105.2	106.7	108.0	110.5	115.5	123.2	127.8	127.4	124.5	143.1
1.25	104.6	105.2	106.3	107.7	109.0	111.6	117.1	125.0	128.6	127.1	123.2	143.6
1.60	104.4	105.3	107.2	108.4	109.4	112.3	118.3	126.9	129.4	127.3	121.8	144.7
2.00	105.4	105.5	107.6	109.2	110.3	113.3	119.5	128.1	129.5	125.5	119.7	144.8
2.50	107.2	107.1	108.4	109.7	111.5	114.5	120.4	129.0	128.7	124.0	119.2	144.6
3.15	108.7	109.0	109.9	110.6	112.3	115.5	121.0	129.2	127.1	122.7	117.3	144.4
4.00	110.0	110.0	111.2	111.8	112.9	116.1	121.0	128.5	125.7	121.1	115.6	143.7
5.00	109.5	110.3	111.5	112.4	113.1	116.3	120.9	126.9	124.1	119.4	113.7	142.5
6.30	108.9	109.5	111.7	112.7	113.9	116.7	120.6	125.4	123.1	117.9	112.0	141.5
8.00	107.5	109.1	111.0	112.9	113.7	116.6	120.1	124.3	121.9	116.4	110.2	140.7
10.0	106.9	108.7	110.8	112.3	113.8	116.5	119.6	123.3	120.7	115.4	109.3	139.9
12.5	108.1	108.5	110.4	112.0	113.4	116.2	118.6	122.1	119.4	114.2	108.4	138.9
16.0	107.7	109.1	111.0	111.9	113.3	116.1	118.3	121.5	118.9	113.5	108.1	138.5
20.0	106.8	108.8	110.8	111.6	112.9	114.9	117.5	120.5	117.9	112.5	107.6	137.7
25.0	106.8	108.5	110.9	112.1	113.2	115.1	116.8	120.2	117.4	112.5	108.0	137.5
31.5	106.7	108.9	111.4	112.0	113.2	114.9	117.2	120.0	117.5	112.3	107.9	137.5
40.0	107.2	109.6	112.1	112.6	113.6	115.9	117.1	120.5	117.9	113.1	108.8	138.0
50.0	107.5	109.4	111.8	112.0	113.9	116.1	118.0	120.5	118.0	113.4	109.1	138.2
63.0	107.8	109.4	112.2	111.7	114.7	116.3	118.7	121.2	118.4	114.0	109.5	138.7
80.0	108.8	110.4	113.5	111.5	115.7	117.9	120.0	122.1	120.6	115.4	111.0	140.0
100.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
											OAPWL =	155.4
OSPL	120.8	121.9	123.9	124.7	126.2	128.7	132.2	138.3	138.4	136.7	134.0	

STAND X206 RIG ID 070530 TEST DATE 03/11/77 SCALE RATIO 12.0/1 RUN NUMBER 2008 CONDITION 8632

			PRIMARY	FAN			PRIMARY	FAN			PRIMARY	FAN			PRIMARY	FAN
TEMP	77.0(F)	25.0(C)	AREA SQFT	8.640	11.520	SQM	0.803	1.070	MASS FLOW	LB/S	771.8	11.5	KG/S	350.1	5.2
PRES	30.24IN	1.028AR	P.R.	4.01	0.98		4.01	0.98	THRUST,IDL	LB	67567.4	0.0	KN	300.555	0.0
WIND D			TEMP (R)	1962.7	1616.7	(K)	1090.4	898.2	THRUST,MEA	LB	0.0		KN	0.0	
WIND V	0MPH	0.0M/S	RHO LB/FT3	0.028	0.025	KG/M3	0.456	0.394	AREA (MOD)	SQFT	0.060	0.080	SQM	0.006	0.007
REL H	70.0%		VEL FPS	2818.8	0.0	M/S	859.2	0.0	W (MODEL)	LB/S	5.4	0.1	KG/S	2.4	0.0

FAA DAY

1/3 OCTAVE BAND ENGINE JET NOISE DATA 150.0FT RADIUS (SCALED ENGINE)

BAND CENTER FREQ (PHZ)	MICROPHONE ANGLES IN DEGREES 60	70	80	90	100	110	120	130	140	150	160	POWER 1E-12W
.050	104.1	103.4	105.4	106.9	106.9	108.8	112.9	119.7	125.4	128.2	126.4	
.063	104.5	104.8	106.6	108.3	108.6	109.8	114.3	121.9	127.6	129.2	125.7	163.7
.080	105.8	105.4	106.8	108.3	109.6	112.1	117.1	124.8	129.4	129.0	126.1	165.1
.100	106.2	106.8	107.9	109.3	110.6	113.2	118.7	126.6	130.2	128.7	124.8	166.3
.125	106.0	106.9	108.8	110.0	111.0	113.9	119.9	128.5	131.0	128.9	123.4	166.9
.160	106.9	107.6	109.1	110.7	111.8	114.8	121.0	129.6	131.0	127.0	121.2	167.8
.200	108.7	108.6	109.9	111.2	113.0	116.0	121.9	130.5	130.2	125.5	120.7	167.9
.250	110.2	110.5	111.4	112.1	113.8	117.0	122.5	130.7	128.6	124.2	118.8	167.9
.315	111.5	111.5	112.7	113.3	114.4	117.6	122.5	130.0	127.2	122.6	117.3	167.5
.400	111.0	111.8	113.0	113.9	114.6	117.8	122.4	128.4	125.6	120.9	115.2	166.8
.500	110.3	110.9	113.1	114.1	115.3	118.1	122.0	126.8	124.5	119.3	113.4	165.5
.630	108.9	110.5	112.4	114.3	115.1	118.2	121.5	125.7	123.3	117.8	111.6	164.5
.800	108.3	110.1	112.2	113.7	115.2	117.9	121.0	124.7	122.1	116.8	110.7	163.7
1.00	109.4	109.8	111.7	113.3	114.7	117.5	119.9	123.4	120.7	115.5	109.7	162.8
1.25	108.9	110.3	112.2	113.1	114.5	117.3	119.5	122.7	120.1	114.7	109.3	161.8
1.60	107.9	109.9	111.9	112.7	114.0	116.6	118.6	121.6	119.0	113.6	108.7	161.4
2.00	107.9	109.6	112.0	113.2	114.3	116.2	117.9	121.3	118.5	113.6	109.1	160.4
2.50	107.6	109.8	112.3	112.9	114.1	115.6	118.1	120.9	118.4	113.2	108.8	160.1
3.15	107.9	110.3	112.8	113.3	114.3	116.6	117.8	121.2	118.6	113.8	109.5	160.0
4.00	108.0	109.9	112.3	112.5	114.4	116.6	118.5	121.0	118.5	113.9	109.6	160.2
5.00	108.1	109.7	112.5	112.0	115.0	116.6	119.0	121.5	118.7	114.3	109.8	160.2
6.30	108.8	110.4	113.5	111.5	115.7	117.9	120.0	122.1	120.6	115.4	111.0	160.6
8.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	161.5
10.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
												0.0

OAPWL = 176.1

OSPL	121.9	122.9	124.9	125.7	127.2	129.7	133.4	139.6	139.8	137.5	133.6
PNL	133.0	134.6	136.9	137.5	138.9	141.2	144.0	148.1	146.4	142.2	137.6

200. SIDELINE

PNL	128.9	131.3	134.0	134.7	136.0	137.9	139.8	142.8	139.5	132.9	124.3

370. SIDELINE

PNL	122.7	125.2	127.9	128.7	129.9	131.8	133.6	136.7	133.3	126.8	118.1

800. SIDELINE

PNL	114.0	116.6	119.3	120.2	121.4	123.2	125.0	128.5	125.4	118.7	109.6

2128. SIDELINE

PNL	101.2	103.3	106.0	107.1	108.2	109.9	112.7	117.1	114.1	107.4	97.9

5.1E-42

MODEL A CONDITION 8306

	4.5				11.6				22.3				34.7				55.0			
	R	TT	V	*	R	TT	V	*	R	TT	V	*	R	TT	V	*	R	TT	V	*
1	1.121	1720.	1335.	*	0.0	1444.	1355.	*	0.0	1461.	1394.	*	0.0	1480.	1500.	*	0.0	1232.	1253.	*
2	1.369	1937.	1761.	*	0.618	1508.	1394.	*	0.682	1519.	1446.	*	1.011	1431.	1488.	*	1.706	1153.	1088.	*
3	1.519	1893.	2176.	*	0.940	1608.	1384.	*	1.502	1521.	1677.	*	2.162	1227.	1204.	*	3.533	978.	708.	*
4	1.666	1890.	2426.	*	1.260	1723.	1600.	*	2.306	1268.	1295.	*	3.292	1040.	784.	*	5.366	833.	360.	*
5	1.816	1803.	2561.	*	1.581	1740.	2249.	*	3.111	1038.	756.	*	4.406	862.	375.	*	7.137	727.	113.	*
6	1.966	1669.	2531.	*	1.901	1565.	2312.	*	3.921	834.	314.	*	5.576	713.	83.	*	9.013	647.	12.	*
7	2.112	1563.	2426.	*	2.219	1308.	1466.	*	4.741	681.	19.	*	6.724	645.	6.	*	10.848	607.	0.	*
8	2.265	1198.	1372.	*	2.514	1093.	970.	*	5.552	628.	4.	*	7.855	606.	0.	*				
9	2.415	980.	806.	*	2.695	1034.	746.	*	6.360	602.	0.	*								
10	2.559	889.	430.	*	3.025	870.	368.	*												
11	2.708	764.	92.	*	3.361	746.	92.	*												
12	2.956	698.	13.	*	3.610	706.	32.	*												
13	3.105	658.	0.	*																
14	3.354	650.	1.	*																

ORIGINAL PAGE IS OF POOR QUALITY

MODEL B CONDITION 8202

	4.5				11.6				22.3				34.7				55.0			
	R	TT	V	*	R	TT	V	*	R	TT	V	*	R	TT	V	*	R	TT	V	*
1	1.244	1264.	1309.	*	0.0	1436.	1317.	*	0.0	1428.	1320.	*	0.0	1204.	1195.	*	0.0	909.	826.	*
2	1.487	1240.	1449.	*	0.736	1440.	1323.	*	0.799	1280.	1251.	*	1.125	1061.	1042.	*	1.816	842.	665.	*
3	1.637	1220.	1504.	*	1.491	1188.	1309.	*	1.618	1036.	1061.	*	2.271	868.	770.	*	3.651	747.	423.	*
4	1.787	1189.	1523.	*	1.986	992.	1118.	*	2.425	861.	762.	*	3.408	746.	422.	*	5.486	660.	194.	*
5	1.937	1126.	1516.	*	2.483	797.	634.	*	3.231	721.	376.	*	4.516	655.	172.	*	7.312	599.	59.	*
6	2.085	1028.	1411.	*	2.811	693.	344.	*	4.040	619.	119.	*	5.692	589.	33.	*	9.147	556.	25.	*
7	2.234	889.	975.	*	3.144	611.	112.	*	4.865	558.	7.	*	6.842	543.	12.	*	10.992	529.	0.	*
8	2.384	781.	628.	*	3.478	558.	21.	*	5.678	528.	0.	*	7.982	521.	0.	*				
9	2.532	657.	336.	*	3.729	529.	13.	*	6.486	513.	0.	*								
10	2.681	582.	140.	*	3.980	516.	0.	*												
11	2.831	534.	0.	*	4.483	512.	6.	*												
12	2.981	523.	0.	*	4.981	510.	1.	*												
13	3.229	516.	0.	*																
14	3.480	515.	0.	*																

	4.5				11.6				22.3				34.7				55.0			
	R	TT	V	*	R	TT	V	*	R	TT	V	*	R	TT	V	*	R	TT	V	*
1	1.211	1302.	2199.	*	0.0	1477.	1337.	*	0.0	1426.	1317.	*	0.0	1277.	1441.	*	1.793	906.	950.	*
2	1.454	1288.	2269.	*	0.707	1332.	1324.	*	0.772	1304.	1602.	*	1.104	1128.	1438.	*	3.622	786.	563.	*
3	1.602	1207.	2243.	*	1.030	1280.	1609.	*	1.595	1036.	1535.	*	2.252	886.	948.	*	5.457	683.	217.	*
4	1.751	1156.	2202.	*	1.352	1204.	2178.	*	2.399	835.	839.	*	3.387	760.	492.	*	7.281	628.	43.	*
5	1.903	1018.	1843.	*	1.672	1049.	1962.	*	3.208	718.	328.	*	4.497	665.	133.	*	9.115	591.	7.	*
6	2.050	809.	880.	*	1.991	885.	1097.	*	4.013	632.	30.	*	5.672	605.	9.	*	10.956	574.	0.	*
7	2.205	707.	420.	*	2.310	767.	632.	*	4.836	583.	7.	*	6.821	578.	0.	*				
8	2.349	648.	133.	*	2.607	686.	261.	*	5.651	576.	7.	*	7.961	572.	0.	*				
9	2.497	629.	9.	*	2.788	663.	102.	*	6.464	574.	6.	*								
10	2.648	637.	0.	*	3.115	626.	4.	*												
11	2.798	597.	0.	*	3.455	605.	1.	*												
12	2.951	595.	0.	*	3.707	601.	1.	*												
13	3.198	595.	0.	*																
14	3.443	596.	0.	*																

	4.5				11.6				22.3				34.7				55.0			
	R	TT	V	*	R	TT	V	*	R	TT	V	*	R	TT	V	*	R	TT	V	*
1	1.188	1641.	1435.	*	0.0	1446.	1336.	*	0.0	1445.	1382.	*	0.0	1388.	1353.	*	0.0	1139.	991.	*
2	1.431	1793.	1528.	*	0.682	1501.	1430.	*	0.740	1468.	1419.	*	1.075	1347.	1275.	*	1.768	1085.	868.	*
3	1.579	1863.	1796.	*	1.007	1580.	1469.	*	1.571	1420.	1369.	*	2.226	1170.	968.	*	3.604	939.	575.	*
4	1.729	1955.	1828.	*	1.327	1696.	1511.	*	2.374	1215.	1013.	*	3.363	994.	566.	*	5.436	821.	276.	*
5	1.876	1880.	1856.	*	1.649	1676.	1730.	*	3.183	1023.	530.	*	4.474	861.	312.	*	7.264	729.	88.	*
6	2.028	1667.	1804.	*	1.968	1486.	1529.	*	3.991	828.	167.	*	5.649	721.	103.	*	9.097	660.	1.	*
7	2.178	1346.	1437.	*	2.289	1247.	1090.	*	4.811	699.	22.	*	6.798	651.	1.	*	10.927	611.	1.	*
8	2.328	1105.	946.	*	2.584	1055.	704.	*	5.626	623.	0.	*	7.934	607.	1.	*				
9	2.475	997.	511.	*	2.763	999.	510.	*	6.441	595.	1.	*								
10	2.625	823.	168.	*	3.053	843.	208.	*												
11	2.776	708.	11.	*	3.432	724.	18.	*												
12	2.926	648.	1.	*	3.682	691.	2.	*												
13	3.175	620.	0.	*																
14	3.420	619.	0.	*																

MODEL B CONDITION 8206

	4.5				11.6				22.3				34.7				55.0			
	R	TT	V	*	R	TT	V	*	R	TT	V	*	R	TT	V	*	R	TT	V	*
1	1.175	1915.	2127.	*	0.0	1473.	1375.	*	0.0	1495.	1400.	*	0.0	1487.	1513.	*	0.0	1223.	1244.	*
2	1.423	1900.	2406.	*	0.676	1658.	1388.	*	0.740	1587.	1617.	*	1.071	1403.	1482.	*	1.760	1111.	1007.	*
3	1.571	1793.	2531.	*	1.000	1750.	1631.	*	1.564	1410.	1616.	*	2.221	1146.	1057.	*	3.593	932.	598.	*
4	1.720	1729.	2577.	*	1.323	1760.	2371.	*	2.370	1116.	971.	*	3.356	953.	574.	*	5.430	787.	270.	*
5	1.868	1524.	2363.	*	1.643	1569.	2354.	*	3.177	911.	447.	*	4.468	792.	204.	*	7.254	699.	78.	*
6	2.020	1262.	1292.	*	1.964	1291.	1453.	*	3.991	742.	123.	*	5.643	682.	37.	*	9.088	631.	0.	*
7	2.166	1034.	719.	*	2.281	1052.	903.	*	4.805	640.	22.	*	6.792	610.	7.	*	10.929	596.	0.	*
8	2.320	789.	277.	*	2.578	879.	484.	*	5.624	594.	0.	*	7.930	586.	1.	*				
9	2.467	702.	46.	*	2.757	838.	295.	*	6.434	587.	1.	*								
10	2.615	676.	16.	*	3.084	725.	48.	*												
11	2.763	643.	7.	*	3.476	655.	1.	*												
12	2.911	630.	0.	*	3.676	641.	1.	*												
13	3.163	628.	0.	*																
14	3.412	628.	0.	*																

	4.5				11.6				22.3				34.7				55.0			
	R	TT	V	*	R	TT	V	*	R	TT	V	*	R	TT	V	*	R	TT	V	*
1	1.206	1302.	1684.	*	0.0	1474.	1539.	*	0.0	1467.	1571.	*	0.0	1382.	1578.	*	1.705	947.	1059.	*
2	1.454	1300.	2183.	*	0.695	1381.	1401.	*	0.763	1367.	1566.	*	1.092	1186.	1565.	*	3.616	803.	626.	*
3	1.604	1258.	2226.	*	1.019	1322.	1455.	*	1.587	1099.	1820.	*	2.244	921.	1053.	*	5.448	688.	266.	*
4	1.751	1237.	2270.	*	1.340	1257.	1938.	*	2.390	880.	992.	*	3.381	767.	581.	*	7.274	628.	52.	*
5	1.901	1132.	2170.	*	1.660	1142.	2124.	*	3.200	749.	461.	*	4.493	678.	214.	*	9.109	591.	8.	*
6	2.050	918.	1451.	*	1.980	978.	1516.	*	4.007	650.	91.	*	5.665	607.	21.	*	10.954	576.	0.	*
7	2.199	842.	850.	*	2.298	836.	891.	*	4.828	589.	1.	*	6.815	580.	1.	*				
8	2.347	732.	393.	*	2.596	735.	492.	*	5.641	578.	1.	*	7.949	573.	1.	*				
9	2.500	639.	75.	*	2.780	710.	295.	*	6.451	573.	1.	*								
10	2.646	614.	7.	*	3.105	649.	38.	*												
11	2.796	610.	0.	*	3.443	612.	3.	*												
12	2.944	604.	0.	*	3.694	607.	2.	*												
13	3.196	603.	0.	*																
14	3.445	603.	0.	*																

	4.5				11.6				22.3				34.7				55.0			
	R	TT	V	*	R	TT	V	*	R	TT	V	*	R	TT	V	*	R	TT	V	*
1	1.177	1318.	2019.	*	0.0	1279.	1451.	*	0.0	1278.	1612.	*	7.970	560.	0.	*	10.929	565.	0.	*
2	1.421	1303.	2164.	*	0.684	1293.	1530.	*	0.755	1248.	2028.	*	6.830	566.	0.	*	9.136	574.	6.	*
3	1.571	1266.	2236.	*	1.007	1282.	2039.	*	1.577	1025.	1756.	*	5.694	582.	0.	*	7.302	614.	34.	*
4	1.720	1208.	2240.	*	1.333	1217.	2177.	*	2.380	836.	868.	*	4.526	633.	87.	*	5.479	659.	150.	*
5	1.870	1161.	2209.	*	1.649	1084.	2024.	*	3.183	710.	343.	*	3.400	707.	395.	*	3.649	727.	453.	*
6	2.017	1043.	1986.	*	1.970	926.	1187.	*	3.993	628.	47.	*	2.265	820.	873.	*	1.843	814.	810.	*
7	2.170	848.	1110.	*	2.289	796.	721.	*	4.814	581.	0.	*	6.815	580.	1.	*				
8	2.318	749.	716.	*	2.582	711.	358.	*	5.628	570.	0.	*								
9	2.465	710.	382.	*	2.767	689.	208.	*	6.441	568.	0.	*								
10	2.615	653.	128.	*	3.095	639.	18.	*				*								
11	2.767	620.	7.	*	3.432	606.	0.	*												
12	2.918	604.	0.	*	3.682	600.	8.	*												
13	3.165	597.	0.	*				*												
14	3.412	596.	0.	*																
				*																

	4.5				11.6				22.3				34.7				55.0			
	R	TT	V	*	R	TT	V	*	R	TT	V	*	R	TT	V	*	R	TT	V	*
1	1.244	1907.	1654.	*	0.0	1421.	1335.	*	0.0	1545.	1412.	*	0.0	1504.	1549.	*	0.0	1221.	1217.	*
2	1.483	1915.	2103.	*	0.726	1654.	1293.	*	0.784	1625.	1659.	*	1.117	1365.	1477.	*	1.810	1080.	919.	*
3	1.737	1779.	2303.	*	1.479	1743.	2268.	*	1.610	1411.	1640.	*	2.265	1113.	960.	*	3.645	904.	565.	*
4	1.986	1424.	2198.	*	1.974	1261.	1499.	*	2.417	1075.	885.	*	3.402	903.	530.	*	5.479	760.	311.	*
5	2.236	1025.	1147.	*	2.471	913.	664.	*	3.224	839.	437.	*	4.516	751.	276.	*	7.304	665.	142.	*
6	2.483	762.	482.	*	2.798	758.	344.	*	4.032	685.	160.	*	5.684	638.	88.	*	9.138	604.	87.	*
7	2.734	644.	143.	*	3.134	660.	139.	*	4.853	600.	105.	*	6.834	587.	29.	*	10.987	573.	5.	*
8	2.980	613.	70.	*	3.465	603.	26.	*	5.667	572.	49.	*	7.969	569.	7.	*				
9	3.229	603.	18.	*	3.717	587.	21.	*	6.480	567.	20.	*								
10	3.181	604.	12.	*	3.968	581.	5.	*												
11	3.233	602.	3.	*	4.468	577.	1.	*												
12	3.484	604.	0.	*	4.967	578.	1.	*												
13	3.733	600.	1.	*																
14	3.983	603.	1.	*																

	4.5				11.6				22.3				34.7				55.0			
	R	TT	V	*	R	TT	V	*	R	TT	V	*	R	TT	V	*	R	TT	V	*
1	1.165	1290.	1134.	*	0.0	1467.	1226.	*	0.0	1435.	1309.	*	0.0	1250.	1263.	*	10.896	578.	0.	*
2	1.408	1264.	1506.	*	0.661	1426.	1390.	*	0.724	1332.	1345.	*	1.052	1114.	1083.	*	9.057	599.	6.	*
3	1.556	1202.	1506.	*	0.982	1351.	1343.	*	1.545	1056.	1070.	*	2.201	914.	752.	*	7.206	651.	56.	*
4	1.706	1174.	1534.	*	1.304	1261.	1332.	*	2.349	884.	722.	*	3.330	805.	439.	*	5.407	705.	187.	*
5	1.858	1031.	1354.	*	1.625	1087.	1347.	*	3.155	782.	373.	*	4.443	711.	162.	*	3.647	775.	413.	*
6	2.007	912.	987.	*	1.947	958.	1217.	*	3.962	684.	138.	*	5.616	635.	41.	*				
7	2.153	853.	661.	*	2.265	846.	698.	*	4.778	608.	1.	*	6.757	598.	14.	*				
8	2.304	751.	329.	*	2.557	758.	407.	*	5.593	583.	0.	*	7.896	580.	1.	*				
9	2.450	676.	92.	*	2.734	732.	239.	*	6.401	574.	0.	*								
10	2.602	612.	2.	*	3.064	667.	59.	*												
11	2.751	603.	1.	*	3.406	620.	8.	*												
12	2.899	594.	5.	*	3.655	610.	0.	*												
13	3.148	590.	0.	*																
14	3.396	590.	0.	*																

	4.5				11.6				22.3				34.7				55.0			
	R	TT	V	*	R	TT	V	*	R	TT	V	*	R	TT	V	*	R	TT	V	*
1	1.159	1285.	1752.	*	0.0	1467.	1359.	*	0.0	1435.	1317.	*	0.0	1272.	1400.	*	10.889	572.	0.	*
2	1.402	1286.	2180.	*	0.655	1389.	1246.	*	0.720	1328.	1408.	*	1.055	1127.	1349.	*	9.067	588.	6.	*
3	1.402	1286.	2180.	*	0.978	1310.	1257.	*	1.541	1085.	1547.	*	2.201	908.	991.	*	7.231	635.	56.	*
4	1.556	1262.	2247.	*	1.298	1236.	2105.	*	2.345	871.	973.	*	3.332	772.	569.	*	5.428	694.	280.	*
5	1.699	1192.	2241.	*	1.618	1109.	2103.	*	3.150	749.	456.	*	4.448	678.	209.	*	3.593	784.	584.	*
6	1.853	1011.	2023.	*	1.939	954.	1403.	*	3.960	650.	77.	*	4.448	678.	209.	*	1.768	898.	939.	*
7	2.001	870.	1182.	*	2.254	824.	855.	*	4.776	590.	7.	*	5.618	618.	15.	*				
8	2.149	808.	693.	*	2.553	731.	441.	*	5.589	576.	0.	*	6.759	589.	0.	*				
9	2.298	713.	294.	*	2.732	706.	269.	*	6.401	572.	0.	*								
10	2.446	656.	34.	*	3.064	648.	33.	*												
11	2.596	615.	1.	*	3.398	616.	2.	*												
12	2.745	611.	0.	*	3.649	610.	1.	*												
13	2.893	606.	7.	*																
14	3.144	606.	0.	*																

	4.5				11.6				22.3				34.7				55.0			
	R	TT	V	*	R	TT	V	*	R	TT	V	*	R	TT	V	*	R	TT	V	*
1	1.163	1531.	1386.	*	0.0	1437.	1168.	*	0.0	1438.	1325.	*	0.0	1369.	1307.	*	0.0	1132.	1007.	*
2	1.408	1706.	1385.	*	0.680	1466.	1400.	*	0.740	1443.	1364.	*	1.071	1313.	1222.	*	1.758	1072.	862.	*
3	1.562	1829.	1591.	*	1.000	1512.	1422.	*	1.564	1367.	1293.	*	2.215	1148.	949.	*	3.585	940.	554.	*
4	1.710	1832.	1811.	*	1.321	1598.	1440.	*	2.363	1200.	1003.	*	3.348	1002.	593.	*	5.419	810.	310.	*
5	1.858	1811.	1855.	*	1.641	1635.	1576.	*	3.171	1026.	609.	*	4.456	852.	307.	*	7.237	722.	92.	*
6	2.007	1701.	1840.	*	1.959	1497.	1530.	*	3.980	845.	236.	*	5.628	730.	73.	*	9.065	648.	10.	*
7	2.156	1428.	1559.	*	2.277	1278.	1138.	*	4.801	694.	18.	*	6.776	648.	17.	*	10.902	604.	11.	*
8	2.308	1198.	1106.	*	2.574	1089.	766.	*	5.612	624.	20.	*	7.909	603.	0.	*				
9	2.452	1045.	764.	*	2.759	1033.	605.	*	6.422	593.	0.	*								
10	2.602	916.	395.	*	3.084	875.	80.	*												
11	2.753	780.	131.	*	3.420	743.	66.	*												
12	2.901	697.	16.	*	3.672	709.	28.	*												
13	3.148	641.	2.	*																
14	3.398	631.	1.	*																

	4.5				11.6				22.3				34.7				55.0			
	R	TT	V	*	R	TT	V	*	R	TT	V	*	R	TT	V	*	R	TT	V	*
1	1.171	1811.	1341.	*	0.0	1436.	1212.	*	0.0	1441.	1294.	*	0.0	1449.	1437.	*	10.900	588.	0.	*
2	1.417	1982.	2063.	*	0.664	1521.	1389.	*	0.732	1497.	1446.	*	1.063	1370.	1388.	*	9.059	623.	14.	*
3	1.564	1870.	2414.	*	0.986	1630.	1402.	*	1.554	1422.	1554.	*	2.211	1149.	1069.	*	7.229	703.	86.	*
4	1.718	1777.	2484.	*	1.306	1718.	1718.	*	2.355	1173.	1092.	*	3.342	979.	660.	*	5.409	930.	328.	*
5	1.860	1707.	2546.	*	1.627	1648.	2388.	*	3.163	963.	580.	*	4.454	820.	306.	*	3.577	1074.	625.	*
6	2.015	1565.	2136.	*	1.947	1369.	1890.	*	3.968	774.	169.	*	5.624	688.	45.	*	1.749	0.	975.	*
7	2.164	1104.	1112.	*	2.263	1132.	1063.	*	4.787	644.	16.	*	6.771	625.	10.	*				
8	2.312	990.	697.	*	2.557	947.	642.	*	5.599	602.	2.	*	7.903	593.	0.	*				
9	2.460	756.	213.	*	2.738	896.	462.	*	6.408	585.	0.	*								
10	2.611	679.	27.	*	3.070	768.	130.	*												
11	2.757	660.	6.	*	3.406	676.	29.	*												
12	2.907	639.	1.	*	3.655	658.	9.	*												
13	3.155	630.	0.	*																
14	3.404	631.	0.	*																

	4.5				11.6				22.3				34.7				55.0			
	R	TT	V	*	R	TT	V	*	R	TT	V	*	R	TT	V	*	R	TT	V	*
1	1.150	1309.	2059.	*	0.0	1475.	1536.	*	0.0	1476.	1544.	*	0.0	1362.	1553.	*	10.631	566.	0.	*
2	1.394	1288.	2200.	*	0.643	1412.	1430.	*	0.709	1371.	1580.	*	1.040	1170.	1521.	*	9.055	583.	7.	*
3	1.548	1213.	2218.	*	0.963	1316.	1311.	*	1.533	1079.	1657.	*	2.189	919.	1021.	*	7.252	626.	41.	*
4	1.697	1114.	2159.	*	1.283	1229.	2058.	*	2.335	865.	952.	*	2.189	919.	1021.	*	5.426	685.	238.	*
5	1.845	991.	1908.	*	1.606	1093.	2076.	*	3.142	743.	426.	*	3.321	776.	561.	*	3.571	771.	586.	*
6	1.995	842.	975.	*	1.924	943.	1359.	*	3.954	646.	70.	*	4.431	675.	202.	*				
7	2.141	735.	561.	*	2.242	816.	826.	*	4.768	590.	7.	*	5.601	611.	19.	*				
8	2.289	701.	193.	*	2.537	725.	429.	*	5.583	577.	0.	*	6.751	581.	1.	*				
9	2.442	693.	9.	*	2.722	703.	259.	*	6.393	573.	0.	*	7.884	571.	1.	*				
10	2.590	616.	0.	*	3.049	647.	30.	*				*								
11	2.738	612.	0.	*	3.385	615.	4.	*												
12	2.887	608.	0.	*	3.634	610.	0.	*												
13	3.136	606.	6.	*																
14	3.383	606.	0.	*																

CONDITION P52?

	4.5				11.6				22.3				34.7				55.0			
	R	TT	V	*	R	TT	V	*	R	TT	V	*	R	TT	V	*	R	TT	V	*
1	1.148	1283.	1155.	*	0.0	1279.	1453.	*	0.0	1764.	1580.	*	7.865	566.	0.	*	10.879	571.	0.	*
2	1.392	1300.	2186.	*	0.643	1270.	1395.	*	0.703	1231.	1695.	*	6.738	574.	0.	*	9.032	594.	14.	*
3	1.541	1286.	2242.	*	0.961	1267.	1659.	*	1.527	1035.	1543.	*	5.581	616.	36.	*	7.197	635.	90.	*
4	1.689	1280.	2277.	*	1.283	1224.	2161.	*	2.328	849.	912.	*	4.425	679.	247.	*	5.382	685.	305.	*
5	1.837	1240.	2291.	*	1.606	1102.	2079.	*	3.136	744.	426.	*	3.313	752.	548.	*	3.550	754.	596.	*
6	1.989	1110.	2190.	*	1.922	945.	1354.	*	3.945	656.	89.	*	2.170	857.	944.	*	1.722	839.	910.	*
7	2.141	993.	2007.	*	2.242	814.	916.	*	4.766	591.	25.	*				*				
8	2.287	874.	1344.	*	2.537	727.	433.	*	5.579	578.	13.	*								
9	2.436	813.	864.	*	2.722	702.	260.	*	6.389	576.	0.	*								
10	2.584	723.	459.	*	3.049	649.	32.	*				*								
11	2.736	696.	123.	*	3.383	612.	0.	*												
12	2.880	511.	15.	*	3.634	604.	0.	*												
13	3.130	511.	15.	*				*												
14	3.380	511.	15.	*																
				*																

	4.5				11.6				22.3				34.7				55.0			
	R	TT	V	*	R	TT	V	*	R	TT	V	*	R	TT	V	*	R	TT	V	*
1	1.142	1563.	1354.	*	0.0	1442.	1126.	*	0.0	1476.	1269.	*	0.0	1510.	1498.	*	0.0	1261.	1278.	*
2	1.252	1609.	1322.	*	0.634	1568.	1385.	*	0.695	1549.	1477.	*	1.026	1434.	1470.	*	1.718	1156.	1067.	*
3	1.385	1739.	1288.	*	0.892	1652.	1448.	*	1.519	1468.	1623.	*	2.174	1189.	1139.	*	3.548	969.	685.	*
4	1.558	1859.	1621.	*	1.150	1712.	1546.	*	2.326	1211.	1187.	*	3.309	977.	702.	*	5.376	825.	343.	*
5	1.633	1871.	1917.	*	1.417	1751.	1899.	*	3.130	981.	642.	*	4.419	835.	331.	*	7.203	714.	103.	*
6	1.749	1863.	2446.	*	1.765	1706.	2451.	*	3.941	792.	206.	*	5.591	713.	70.	*	9.034	645.	15.	*
7	1.885	1798.	2573.	*	1.932	1527.	1946.	*	4.758	653.	2.	*	6.738	639.	9.	*	10.869	606.	0.	*
8	2.009	1741.	2633.	*	2.382	1085.	994.	*	5.572	610.	1.	*	7.873	604.	0.	*				
9	2.135	1575.	2475.	*	2.708	888.	530.	*	6.385	591.	0.	*								
10	2.386	1199.	1144.	*	3.037	751.	175.	*												
11	2.629	804.	362.	*	3.375	691.	15.	*												
12	2.780	705.	83.	*	3.626	664.	0.	*												
13	2.926	630.	8.	*																
14	3.076	666.	6.	*																

CONDITION 8629

	4.5				11.6				22.3				34.7				55.0			
	R	TT	V	*	R	TT	V	*	R	TT	V	*	R	TT	V	*	R	TT	V	*
1	1.119	1273.	1367.	*	0.0	1266.	1411.	*	0.0	1269.	1536.	*	0.0	1149.	1606.	*	10.864	564.	0.	*
2	1.229	1289.	2185.	*	0.626	1280.	2084.	*	0.686	1244.	1830.	*	1.017	1079.	1638.	*	9.017	576.	0.	*
3	1.363	1261.	2178.	*	0.884	1252.	2146.	*	1.510	989.	1540.	*	2.166	866.	976.	*	7.201	613.	49.	*
4	1.541	1153.	2144.	*	1.148	1177.	2166.	*	2.312	791.	750.	*	3.301	727.	472.	*	5.376	663.	223.	*
5	1.612	1082.	2123.	*	1.408	1053.	2004.	*	3.122	691.	268.	*	4.415	650.	111.	*	3.548	743.	566.	*
6	1.731	1027.	2017.	*	1.666	954.	1277.	*	3.931	619.	32.	*	5.583	599.	2.	*	1.714	847.	938.	*
7	1.862	892.	1229.	*	1.922	838.	802.	*	4.752	579.	0.	*	6.730	575.	0.	*	0.0	899.	1080.	*
8	1.986	784.	787.	*	2.374	674.	256.	*	5.564	570.	7.	*	7.869	568.	0.	*				
9	2.112	707.	447.	*	2.701	621.	61.	*	6.373	567.	0.	*								
10	2.359	631.	42.	*	3.033	591.	0.	*												
11	2.607	582.	0.	*	3.369	579.	6.	*												
12	2.757	574.	0.	*	3.618	575.	0.	*												
13	2.905	573.	0.	*																
14	3.058	573.	0.	*																

5.2E-2

CONFIG. A
RUN 1346

PT	PRP	PRE	CT	CDP	CDF
4	1.54	4.24	.984	.845	.979
5	1.54	4.23	.984	.848	.980
6	1.53	3.89	.986	.872	.976
7	1.53	3.89	.986	.877	.976
8	1.53	3.45	.987	.889	.971
9	1.53	3.44	.987	.887	.973
10	1.54	2.95	.987	.863	.970
11	1.54	2.95	.986	.864	.969
12	1.53	2.61	.985	.822	.968
13	1.53	2.61	.985	.822	.968
14	1.52	2.33	.984	.791	.966
15	1.52	2.32	.985	.794	.968
16	1.51	2.05	.985	.810	.966
17	1.51	2.06	.985	.812	.964
18	1.51	1.95	.985	.829	.960
19	1.51	1.95	.985	.828	.960
20	1.50	1.58	.980	.876	.942
21	1.50	1.58	.980	.876	.942
22	1.50	1.38	.974	.899	.923
23	1.50	1.38	.978	.906	.933

CONFIG. A
RUN 1347

PT	PRP	PRE	CT	CDP	CDF
4	2.01	4.21	.989	.929	.975
5	2.01	4.21	.990	.928	.976
6	2.01	3.80	.991	.959	.972
7	2.01	3.79	.991	.963	.971
8	2.00	3.40	.989	.963	.971
9	2.00	3.40	.989	.966	.969
10	2.00	3.07	.988	.952	.970
11	2.00	3.08	.988	.954	.968
12	1.99	2.73	.988	.926	.969
13	1.99	2.73	.988	.928	.970
14	2.00	2.40	.987	.912	.963
15	2.00	2.40	.987	.913	.967
16	2.00	1.91	.985	.941	.960
17	2.00	1.91	.986	.942	.960
18	2.00	1.65	.983	.957	.947
19	2.00	1.65	.983	.959	.946
20	2.00	1.41	.980	.958	.949
21	1.99	1.42	.981	.959	.948

CONFIG. B
RUN 1337

PT	PRP	PRE	CT	CDP	CDF
3	1.53	4.25	.973	.893	.980
4	1.53	4.24	.972	.880	.984
5	1.54	3.78	.975	.853	.980
6	1.53	3.78	.975	.854	.979
7	1.54	3.30	.978	.786	.975
8	1.54	3.31	.976	.769	.980
9	1.54	2.90	.980	.690	.974

10	1.53	2.90	.983	.700	.972
11	1.53	2.87	.982	.688	.974
12	1.54	2.56	.980	.765	.980
13	1.54	2.56	.980	.771	.977
14	1.54	2.24	.980	.805	.977
15	1.54	2.24	.979	.808	.976
16	1.54	1.82	.977	.877	.971
17	1.54	1.81	.977	.878	.971
18	1.53	1.50	.976	.916	.965
19	1.53	1.50	.975	.921	.965
20	1.53	1.36	.979	.931	.960
21	1.53	1.36	.978	.930	.960

CONFIG. B
RUN 1330

PT	PRP	PRF	CT	CDP	CDF
4	2.00	4.41	.968	.973	.980
5	2.00	4.41	.969	.975	.979
6	2.00	3.86	.975	.954	.979
7	2.00	3.86	.975	.956	.980
8	2.02	3.24	.980	.933	.986
9	2.03	3.23	.979	.925	.980
10	2.05	2.88	.983	.908	.977
11	2.05	2.88	.983	.909	.975
12	2.05	2.52	.986	.926	.974
13	2.05	2.52	.986	.926	.975
14	2.05	2.22	.985	.944	.972
15	2.05	2.22	.985	.940	.976
16	2.04	1.95	.984	.960	.971
17	2.04	1.95	.984	.957	.973
18	2.02	1.59	.983	.970	.962
19	2.02	1.59	.983	.968	.964
20	2.01	1.37	.984	.969	.959
21	2.01	1.37	.983	.969	.959

CONFIG. B
RUN 1327

PT	PRP	PRF	CT	CDP	CDF
4	-	4.20	.959	-	.983
5	-	4.20	.960	-	.983
6	-	3.30	.957	-	.981
7	-	3.81	.957	-	.981
8	-	3.81	.957	-	.979
9	-	3.37	.953	-	.983
10	-	3.38	.952	-	.982
11	-	2.94	.937	-	.982
12	-	2.94	.937	-	.982
13	-	2.94	.937	-	.982
14	-	2.60	.904	-	.981
15	-	2.60	.904	-	.981
16	-	2.16	.892	-	.977
17	-	2.15	.896	-	.975
19	-	1.83	.864	-	.970
20	-	1.83	.864	-	.968
21	-	1.58	.848	-	.966
22	-	1.58	.852	-	.964
24	-	1.33	.895	-	.960

CONFIG. C
RUN 1339

PT	PRP	PRE	CT	CDP	CDF
4	1.54	4.28	.968	.591	.984
5	1.53	4.28	.968	.612	.984
6	1.52	3.79	.972	.632	.985
7	1.53	3.78	.971	.633	.984
8	1.52	3.25	.975	.603	.984
9	1.52	2.86	.977	.662	.983
10	1.52	2.86	.977	.660	.982
11	1.53	2.43	.977	.717	.979
12	1.53	2.06	.975	.740	.976
13	1.53	1.84	.974	.780	.970
14	1.53	1.84	.974	.783	.971
15	1.52	1.62	.972	.837	.966
16	1.52	1.61	.972	.837	.966
17	1.52	1.39	.970	.901	.952
18	1.52	1.38	.969	.896	.950

CONFIG. C
RUN 1340

PT	PRP	PRE	CT	CDP	CDF
4	2.02	4.35	.966	.859	.982
5	2.02	4.35	.966	.857	.983
6	2.02	3.85	.970	.857	.984
7	2.02	3.85	.970	.856	.985
8	2.02	3.31	.975	.841	.985
9	2.02	3.30	.975	.841	.986
10	2.00	2.87	.979	.891	.981
11	2.01	2.87	.979	.891	.980
12	2.01	2.64	.980	.912	.978
13	2.01	2.64	.979	.908	.979
14	2.01	2.24	.979	.937	.975
15	2.01	2.24	.980	.939	.975
16	2.00	1.94	.978	.956	.970
17	2.00	1.94	.979	.958	.969
18	1.98	1.57	.977	.969	.958
19	1.98	1.57	.977	.968	.959
20	1.97	1.42	.975	.971	.953

CONFIG. D
RUN 1331

PT	PRP	PRE	CT	CDP	CDF
4	1.51	4.16	.978	.984	.980
5	1.51	4.16	.977	.979	.983
6	1.49	3.84	.979	.978	.983
7	1.49	3.84	.979	.983	.982
8	1.50	3.27	.982	.981	.979
9	1.50	3.27	.981	.977	.976
10	1.50	2.78	.983	.943	.977
11	1.50	2.78	.980	.943	.974
12	1.52	2.56	.982	.921	.975
13	1.52	2.56	.982	.918	.977
14	1.53	2.08	.981	.892	.968
15	1.53	2.08	.981	.890	.967
16	1.51	1.76	.980	.908	.965
17	1.51	1.76	.978	.916	.963

18	1.52	1.58	.978	.928	.960
19	1.52	1.58	.978	.923	.959
20	1.52	1.30	.975	.974	.951
21	1.52	1.30	.978	.983	.951

CONFIG. D
RUN 1341

PT	PRP	PRF	CT	CDP	CDF
4	2.01	4.39	.982	.957	.983
5	2.01	4.38	.982	.959	.984
6	2.00	3.94	.983	.972	.982
7	2.00	3.94	.984	.975	.981
8	2.01	3.36	.985	.990	.976
9	2.01	3.36	.985	.992	.978
10	2.02	2.99	.985	.994	.978
11	2.01	2.99	.985	.993	.978
12	2.04	2.57	.983	.997	.974
13	2.04	2.56	.984	.999	.974
14	2.03	2.26	.986	.994	.970
15	2.03	2.27	.985	.992	.969
16	2.03	1.85	.983	.993	.963
17	2.02	1.85	.983	.992	.963
18	2.02	1.54	.983	.996	.957
19	2.03	1.54	.982	.997	.956
20	2.03	1.38	.981	.998	.954
21	2.02	1.38	.981	.997	.958

CONFIG. D
RUN 1329

PT	PRP	PRF	CT	CDP	CDF
4	-	4.34	.953	-	.980
5	-	4.34	.953	-	.980
6	-	3.78	.954	-	.980
7	-	3.78	.953	-	.981
8	-	3.78	.954	-	.980
9	-	3.24	.953	-	.980
10	-	3.24	.953	-	.980
11	-	2.94	.953	-	.977
12	-	2.93	.955	-	.981
13	-	2.93	.954	-	.980
14	-	2.51	.956	-	.976
15	-	2.51	.956	-	.974
16	-	2.31	.956	-	.971
17	-	2.23	.954	-	.970
18	-	2.23	.953	-	.968
19	-	1.84	.946	-	.963
20	-	1.84	.947	-	.961
22	-	1.58	.939	-	.956
23	-	1.58	.939	-	.958

CONFIG. E
RUN 1342

PT	PRP	PRF	CT	CDP	CDF
4	1.53	4.36	.968	.933	.994
5	1.53	4.36	.969	.935	.993
6	1.52	3.91	.972	.967	.994
7	1.52	3.91	.971	.957	.996
8	1.52	3.29	.973	.999	.989

9	1.51	3.29	.973	.995	.991
10	1.52	2.79	.972	.999	.986
11	1.52	2.79	.973	.999	.983
12	1.54	2.54	.972	.986	.983
13	1.54	2.54	.973	.983	.984
14	1.56	2.22	.973	.967	.979
15	1.56	2.22	.973	.967	.979
16	1.56	1.92	.971	.962	.976
17	1.56	1.92	.971	.967	.974
18	1.56	1.51	.969	.973	.961
19	1.56	1.50	.970	.979	.960
20	1.54	1.31	.967	.976	.956
21	1.54	1.31	.967	.979	.955

CONFIG. E
RUN 1343

PT	PRP	PRF	CT	CDP	CDF
4	2.00	4.31	.974	.955	.989
5	2.00	4.31	.973	.951	.987
6	2.00	3.76	.977	.969	.986
7	2.00	3.77	.977	.966	.987
8	2.02	3.28	.979	.993	.983
9	2.02	3.28	.980	.988	.980
10	2.03	3.01	.979	.984	.982
11	2.03	3.01	.979	.983	.984
12	2.04	2.45	.976	.996	.977
13	2.04	2.45	.977	.999	.975
14	2.03	2.21	.976	.996	.976
15	2.03	2.21	.976	.992	.977
16	2.02	1.92	.976	.995	.976
17	2.02	1.91	.977	.991	.977
18	2.02	1.55	.973	.992	.973
19	2.01	1.55	.974	.989	.974
20	2.01	1.36	.971	.988	.971
21	2.01	1.36	.972	.989	.972

CONFIG. E
RUN 1326

PT	PRP	PRF	CT	CDP	CDF
4	4.07	-	.977	.973	-
7	3.57	-	.978	.972	-
9	3.12	-	.982	.970	-
12	2.71	-	.983	.971	-
14	2.52	-	.984	.971	-
17	2.06	-	.979	.973	-
19	1.73	-	.975	.963	-
22	1.45	-	.971	.957	-
24	1.28	-	.968	.952	-